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THE FEATHER



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ANIMAL INDUSTRY.

BUFF PLYMOUTH ROCK MALE.

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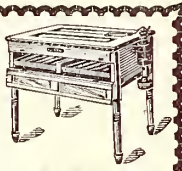
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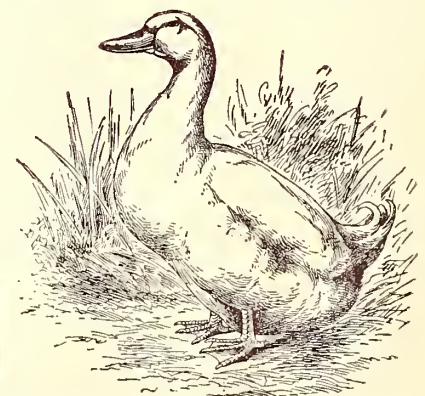
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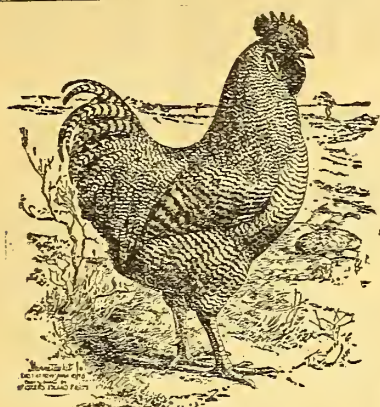
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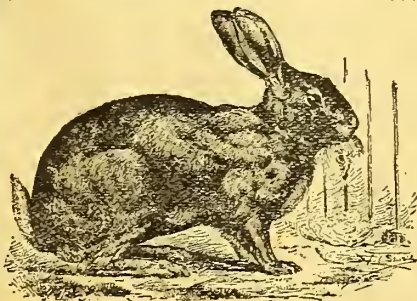
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"The American Fancier's Poultry Book."

THE American Fancier's Poultry Book" is one of the best books we have ever offered to the readers of THE FEATHER. It is a grand book, and has been praised by all who have seen it. It is a practical book, and should be in the home of each and every lover of poultry. No matter how much you may know about poultry, you will be certain to find something new in its pages. To the novice nothing better could possibly be recommended. This great book contains illustrated chapters on The Poultry Industry, General Management, The Egg, Incubation, The Chick, Recipes for Feeding, Feeding for Eggs, House Building, Keeping Eggs, Caponizing, Diseases, The Standard Breeds of Poultry, The American Class, Asiatic Class, Mediterranean Class, Polish Class, Hamburg Class, French Class, English Class, Game and Game Bantam Class, Bantam Class—Other Than Game, Miscellaneous Class, Turkeys, Ducks, Geese, and Swans. **Price, 50 Cents.**

"Money in Squabs."

THE most interesting and the only practical book published on raising squabs for market, is our book entitled "Money in Squabs." This book has had a most generous sale during the past year, greatly exceeding the expectations of the publishers, and is, without doubt, the only reliable publication of its kind. "Money in Squabs" treats of every topic pertaining to pigeon raising, and is illustrated with the most modern and practical ideas for housing and breeding pigeons on a large as well as a small scale. You will surely be interested in the industry after reading this book, and the information gained will be worth many times its cost to you. "Money in Squabs" contains chapters on the following interesting subjects:

Introductory, Breeding Houses, Breeding Stock, Distinguishing Sex, Food and Feeding, Water, Salt, Nesting Material, Manure, Breeding and Management, Dressing Squabs for Market, Shipping and Selling, Diseases of Pigeons—Canker, Cholera, Egg Bound, Enteritis, Going Light, Roup, Small Pox, Sudden Colds, Wing Disease, Worms—and Douglass Mixture. Some of the illustrations are: Full-page drawings of Homers, Runts, Dragons, and Duchesse Pigeons, Plans of Single, Double, and Continuous Houses for Breeding Squabs, Arrangement of Aviaries to a Garret Room and to a Barn, Plans for Building a House in the Back Yard, Plans of Nests, Perches, Mating Boxes, Bath Tubs, Drinking-Fountains, Salt-cat and Grit Boxes, etc., etc. The book is thoroughly practical, reliable, and of untold value to all who are interested in raising pigeons for profit or pleasure. **Price, 50 Cents.**

"The Diseases of Poultry."

THE Diseases of Poultry," by D. E. Salmon, D.V.M. is the only standard and reliable work published in the English language on this important subject to every poultryman. The author is too well known to need an introduction, and his works are adopted as authentic by everyone. This is his latest book, and all who breed fowls, whether for pleasure or profit, should have a copy of it. This great book has twelve complete chapters treating on all known diseases which affect poultry. It has 248 pages and 72 reliable illustrations. This book is printed on finest calendered paper, handsomely bound in heavy covers, and weighs exactly one pound. This valuable book has twelve chapters on the following subjects: Introduction, Diseases of the Organs of Respiration, Diseases of the Organs of Digestion, Diseases of the Organs of Digestion Continued, Diseases of the Peritoneum, Liver, and Spleen, Diseases of the Organs of Urination and Reproduction, Diseases of the Brain, Diseases of the Heart and Blood Vessels, Parasites and Diseases of the Skin, Diseases of the Feet and Legs, Diseases Having a Tendency to Affect More Than One Set of Organs, and Injurious Habits and Vices. **Price, 50 Cents.**

"Pocket-Money Poultry."

THE fourth book of THE FEATHER's series is Myra V. Norys' latest production, "Pocket-Money Poultry." This book was written primarily for women who wish to supply themselves with pocket-money by keeping a few fowls. It begins at the beginning of the subject, goes into the details, points out the essentials, and makes the course of the successful poultry-raiser so plain that any intelligent person can follow it without difficulty.

The experienced poultryman will, also, read this book with both pleasure and profit. There are none so old and experienced but that they have still much to learn. Perfection in this as in other occupations is hard to attain, and those who are doing the best still find room for improvement.

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The Feather's Art Pictures.

WOUR collection of beautiful poultry pictures is unexcelled. We have prepared these plates at considerable cost and do not hesitate in saying that they are the best art pictures of poultry ever published. Many thousands of them have been sold, and every one interested in poultry should have them in their homes. They are printed on best quality of paper and suitable for framing. All lovers of poultry should by all means possess these beautiful art pictures. Following is a list of twelve pictures 8½ x 11 inches. These are sold in sets of six for **50 cents**. Select any six of the twelve you may wish for **50 cents**, or the full set of twelve for **75 cents**. When ordering a set of six pictures be sure to give the numbers of the ones you want.

1. Barred Plymouth Rock Male. 2. Light Brahmas. 3. Black Langshans. 4. White Wyandottes. 5. Buff Leghorns. 6. Black Minorca Male. 7. Single Comb Brown Leghorn Male. 8. Pair Silver Spangled Hamburgs. 9. Pair White Crested Black Polish. 10. Pair Barred Plymouth Rocks. 11. Pair White Wyandottes. 12. Buff Cochins Female.

BLACK MINORCA SPECIAL.

We have just published a most beautiful picture in natural colors of the Standard Ideal Black Minorca male and female as adopted by the American Black Minorca Club. It is pronounced to be the most perfect picture of these birds ever published; the coloring effects are marvelous, showing the greenish-black plumage as is to be seen in the living birds. The picture is 9½ x 12½ inches, on the best grade of enameled paper, and mailed securely in tubes for **25 cents each** or five for **\$1.00**. Special prices for large quantities.

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This new picture is our greatest triumph. It is 12½ x 18½ inches and is most attractive for framing. The plate is what is known in art as a duograph, and is a most perfect representation of steel plate engraving. The subject of the picture appeals to all lovers of poultry, and makes a picture that will be appreciated in any home. The scene is a beautiful girl standing in the midst of a flock of Standard Light Brahmas, with the farm house and orchard in the distance. It is a sunshiny scene and appeals to the eye at sight. This great picture securely mailed in tubes for **25 cents each**, five for **\$1.00**. Larger quantities at special prices.

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A National Journal Devoted to Poultry, Pigeons, Birds, Etc.

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VOL. VII. No. 1.

WASHINGTON, D. C., OCTOBER, 1901.

FIVE CENTS.

HOUDANS.

Their Origin, Improvement, and High Qualities.

By T. F. McGREW.

The very large classes of Houdans at our eastern shows for the past two seasons gave hope of their soon becoming one of our popular breeds, but unfortunately the vast gulf of opposite opinions between the breeders of the East and the judges from the West has retarded their advancement till at New York but sixteen were presented for competition.

It is not our purpose to consider the question of right or wrong as between these divided opinions, but we trust that an effort in behalf of the Houdan may help to advance them to a position far beyond that now occupied by them; for we are fully convinced that they are deserving of considerable more attention than is given them; and when we begin to pay more attention to quality than to public clamor, quite a few of the high-quality table fowls will have more attention.

No country in the world pays equal attention with France to their poultry and egg supply. In the town of Houdan it is not unusual for as many as sixty thousand dressed fowls to be marketed in one week; and as far back as 1860 the Houdan fowl was a prime favorite in that locality.

We copy the following from "The Poultry Book," it having been originally published in "The Field" about forty years ago:

"In an article on the relative economical merits of the several varieties of French poultry, which was published in 'The Field,' it was stated: 'The Houdans may certainly be regarded as the Dorkings of France. Large, heavy, short-legged, five-toed fowls, with small, light bone, a remarkable absence of offal, and with irregularly speckled or mottled plumage, they strongly recall to mind the old-fashioned colored Dorking, as it existed before any attention had been directed to uniformity of feathering by the poultry shows. Their merits as table fowls are of the highest excellence. No pure-bred chickens mature with greater, or perhaps with as great a degree of rapidity; they feather early, are

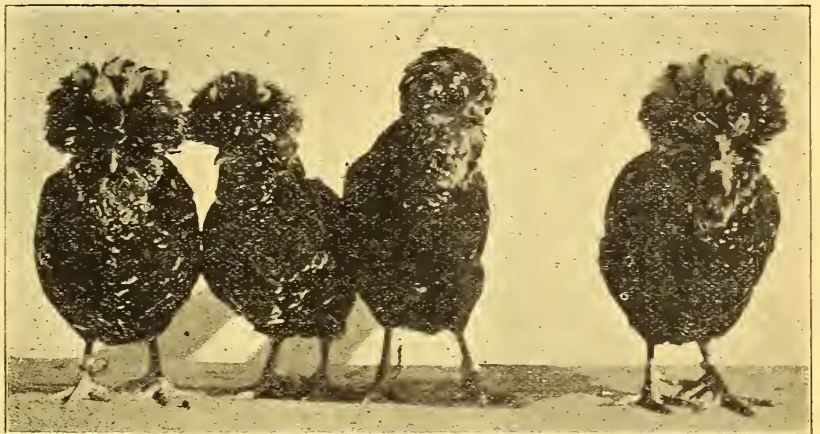
extremely hardy, and are consequently easily reared. The old birds are robust, and the eggs, which are numerous, are remarkable as being almost invariably fertile. There can be no doubt of the economic value of this race, more especially for table purposes."

The accompanying woodcut, taken from the birds which obtained the first prize at Paris in 1865, and which afterwards passed into the possession of the National Poultry Company, shows

one above the other. Strongly developed whiskers and beards both in cocks and hens. This is one of the finest races of fowls, but its qualities surpass even its beauty; besides the smallness of their bone, the fineness of their flesh, they are of an extraordinary precocity and fecundity; they lay large and white eggs, and the chickens are fit for the table at four months old. It is, however, observed that they are very indifferent for hatching. The weight of adults is from seven to eight pounds, in which the bones figure for one-eighth. The chickens, when four months old, weigh, without the intestines, about four-and-a-half pounds."

PROPER COMB OF THE TRUE HOUDAN.

The first feature for consideration is our present Standard demand as to comb. The Standard calls for a leaf



GROUP OF HOUDANS.

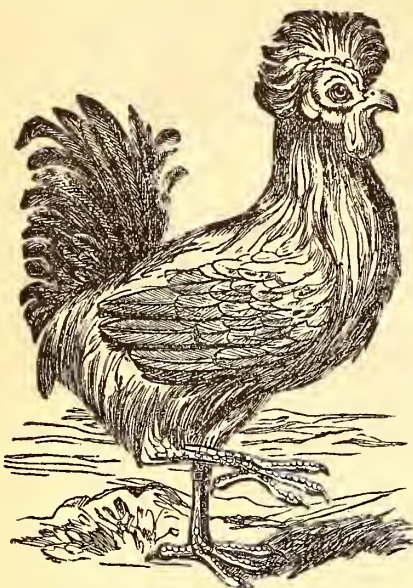
Bred and Owned by C. E. Petersen, Linneus, Me.

the characteristics of this breed, which is thus described in Mr. Geyelin's pamphlet:

"The Houdan fowl has a very bulky appearance, its plumage invariably black and white spangled; a crest of the same color; comb triple, the outsides opening like two leaves of a book, and the center having an appearance of an ill-shaped, long strawberry. With the cock the comb is *very large*, whilst with the hen it ought to be *scarcely perceptible*. The legs are strong and of a *lead color*, with five claws, the two hind ones

comb that is V-shaped. In the face of this, many of our judges almost discard a specimen that has the true leaf comb. The very first demand of the Standard as to comb is disregarded and set aside as a dead letter; and when we consider all the facts in connection with this change of comb, we and the judge will be of the same opinion.

The illustration of the early-day French Houdans is quite like the Polish illustrations of the time, in length of neck and legs and poise of body; more like the early English Game type than



THE ORIGINAL EARLY-DAY POLISH.

of the Dorking formation. Attention is called to this for its bearing and what may be said later as to our American fancy as to proper form.

There are at the present time three distinct types of Houdans, as bred in France, England, and America. The French pay the greater attention to all utility qualities, not so much to exhibition form, and but little to color demands. England follows the heavy-bodied Dorking type that has the short legs that are pinkish-white in color and mottled with the darker color. It is the opinion of many that the English Houdan has a dash of Dorking blood in its make-up. Greater attention is paid to both form and color than is given these same requirements in France. The deep, long, heavy bodies and large crest and beard have the greater attention. In color they aim for the richest black and clear white, but favor rather more white than with us.

Houdans with us, like all of our many breeds, have suffered at the hand of color demands. We are so very decided as to color points and so very lax as to shape that all of our fowls lose both size and shape as the result of color preferences. The infusion of new blood, one of the necessary requirements for size and vigor, being more or less a disturbing element to color, keeps one from making equal advancement in all sections. These troubles are quite preva-



CREVE CŒUR.—Head and Comb.

lent in our Houdans, from the fact that we originally had the English Dorking crossed Houdans; and not liking the predominance of white, a cross with the Creve Cœur is named as the reason for the present style of comb, the predominance of black, the very dark shanks, and the much-too-often, very small fifth toe, or its entire absence.

These facts tell us why the Houdan is at war with itself, the Standard and the judge. Its unusual make-up of form and color, the many breeds of such positive variance of form and color that have been united to build them up, will, as they must continue to do, produce several styles of Houdans as to shape and color. If it is our wish to advance them to a position which they will deserve we must have a more settled rule of form and color.

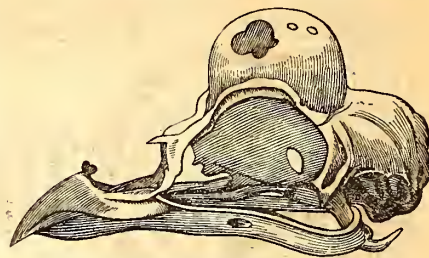
The reference made to comb formation above can now be considered as in order. For Polish, Houdans, and Creve Cœurs we demand the same standard comb; but we judge them as we find them on the specimen. In not one single



EARLY-DAY HOUDAN.—Head and Comb.

instance do we show a preference for the leaf comb as demanded. This being the case why not change the reading in each case to describe just what we most prefer, and stick to the rule? Why should we say by our actions when passing judgment upon a class of Houdans that we believe a small V-comb to be a leaf comb, when we know that it is not? If Houdans are to have small, short V-combs, so describe them in the Standard; if not, the sooner we get back to the leaf comb the better for all concerned. Most certainly we should not favor the almost total absence of comb, especially when the appearance of that which remains tends to incline one to the opinion that the shears have been used.

The color description of the Houdan is much abused and contorted into meaning just as the preference of the applicant may tend. Those who like the proper color as described and those who



SKULL OF POLISH FOWL.

prefer the three-fourths or seven-eighths black, stand behind the same wording; each claiming to be right.

The wording of the Standard as to color, calls for black and white intermixed; the black slightly predominating—not predominating to an elastic degree—but as plain as it can be, *slightly* predominating. This can not mean anything else but what it tells us; and most certainly it does not refer to solid black hackle, back, and saddle, with a tail that shows but little white. If we are to have the beautiful colored Houdan we must cast aside our present methods and return to the more evenly balanced black and white surface-color, with the black just overbalancing the white. The heavy Dorking type properly clothed in this slightly overbalanced black as against the white is the true Houdan.

The Standard tells us that wing-bows shall be black. This must be an error; for the almost solid black Houdan female will show some white specks on wing-bow if there is any white in her at all. We can not make up our minds that the wing-bow should be black; and we find those most successful with them think as we do. This should have considerable thought, as should the question of black legs. In our opinion black shanks should be a disqualification; if one-half dark or black upon the pinkish-white it should throw them out. War should be declared upon this too much Creve Cœur Houdan.

The ill-advised preference for entirely too much black has turned the display of Houdan chicks into the black list. The fact that a cockerel or pullet will grow lighter in color with age is advanced as an excuse for allowing almost solid black specimens to win. This should not be. The proper shape, size, and color demand should be applied to



HEAD OF COMMON POLISH FOWL.

old and young alike. Prospective favors should not be bestowed upon an almost black pullet because she may possibly mature into a good-colored hen and when we see the followers of the card and pencil give a four-pound pullet that is more than three-fourths black a score of ninety-three the object-lesson jars us quite severely.

Our French classes with us in the East have had some encouragement the past few years from those who are able and willing to advance these unpopular birds for their true worth and the pleasure derived from their culture. These admirers can be retained within the ranks if they receive proper treatment; but if we continue the utter disregard of our written law—their only guide for selecting the best—these classes must suffer, because they have not public favor behind them to keep them along and must depend upon a few who foster them for their real worth as table poultry, and not for the profit that may come from their possession or prizes won. Such people are of considerable advantage to the fancy and their rights should be considered.

can deny that we have an excellent table fowl in the Houdan.

"I do hope that Houdan breeders will not make the mistake of sacrificing everything to 'crest,' but will take care to retain the sterling utility qualities of the breed. Personally I never breed from a bird, no matter what her exhibition qualities may be, unless she has proved herself a first-class layer, and whenever I introduce any new blood I ascertain beyond doubt that the bird or birds belong to a strain of prolific layers; although having once succeeded in establishing a laying strain, it is most advisable to breed from practically the same blood, and not introduce any quite unrelated cocks.

"In conclusion, I maintain that, by careful selection, we can breed a first-class exhibition specimen and an equally good layer in one and the same bird. I claim those qualities for my own birds, and could name other Houdan breeders who can do the same. My books recording the eggs laid, and also my breeding stock, may be seen by anybody interested.—T. HENRY THORNER."

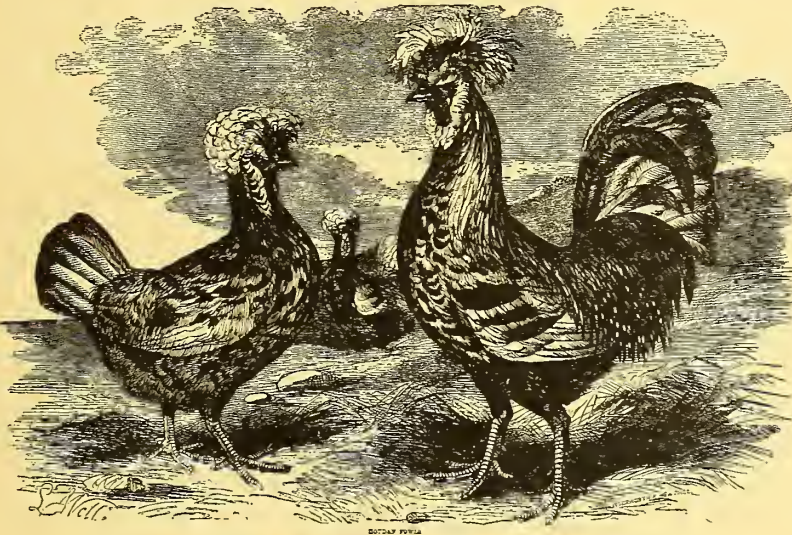
This writer has the proper notion of



HEAD OF AN ENGLISH HOUDAN MALE.

plumage is black and white, but by this I do not mean that some feathers are wholly black, and others wholly white. This, I think, is a great failing. On the body of a Houdan hen of correct color, to my idea, every feather should be black with a white tip, this white tip not so large as to cover the black on the feather below; we thus get a well-mottled bird. The cock should be very similar on the breast, but is allowable of much more black plumage on the back. Then the Houdan has a crest and beard, or bib, and muffling on the face, of the same color as the body. Its comb is peculiar to itself, opening out on the front of its head, in shape something like a butterfly. It should be firm and not too meaty. The leaf or butterfly comb I consider very important, and it has become a more fixed type than formerly, when birds with antler or Creve combs would often be seen winning prizes. This is decidedly wrong, and should not be encouraged.

I have just mentioned the crest, but have said nothing as to its shape. The Houdan crest is quite distinct from the Polish, particularly in the cock. Long, loose feathers, spreading about the head of a Houdan cock, spoils him. We want the crest large, but more globular in shape, full and compact, the feathers falling gently to the back and side of the head; and to make a good-headed Houdan, in addition to comb and crest we must have a good, full bib or beard, and



PRIZE-WINNING HOUDANS OF 1865.

We clip the following from *The Feathered World*. It is from the pen of one of the successful handlers of Houdans in England. He writes as follows:

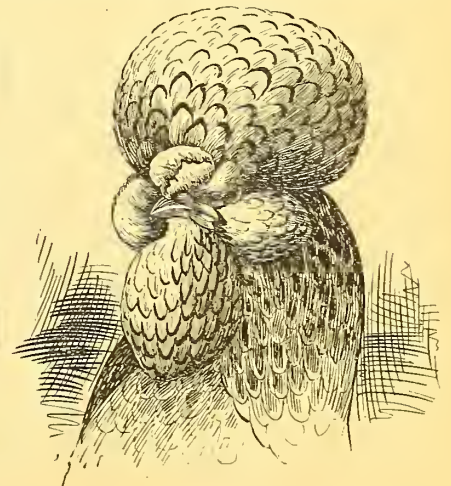
"A certain writer claims that the Houdan of to-day is but a poor and degenerate descendant of the Houdan of, say forty years ago, and I think this is a mistake for many reasons. I claim for the breed that it is to-day one of the best all-around utility breeds in existence, in spite of all the modern innovations, and, in support of my claim, I can prove that my own birds can and do lay as many as two hundred eggs per year per bird, averaging them all around; and people whom I have supplied with birds or eggs have written to me to say that their birds have eclipsed any thing they have ever had for egg-production, having averaged even more than the number I name, and have been in excellent health and condition all the year around. I do not presume to say or think that my birds are the only strain which can do this, because I can name at least three gentlemen whose Houdans, not in any way related to mine, have also done it. Also, nobody

quality. He would unite high show qualities with useful traits that improve their value and use.

We clip the following from an exchange:

"Mr. J. Ainsworth, secretary of the Houdan Club, of England, has an article in the *Fanciers' Gazette* (London) that will be of great interest to every club member. Note carefully what he says as to color. He wants what our best breeders here are contending for—a mottled fowl, not a solid white feather, but each black feather tipped with white. The 'white feather splashy' fellows, who are now talking so much about Houdan color, should read this article more than once. Mr. Ainsworth says:

'Now as to the Houdan. To those who are not familiar with the bird, I may say that it is a squarely built and rather bulky fowl, with a long, deep breast (on which there is an abundance of rich white meat), the body is carried on rather short legs, with five toes; the fifth toe should spring from the inner side of the leg, close to, but quite separate and distinct from, the fourth toe, and should curve gently upwards. The color of the



HEAD OF AN ENGLISH HOUDAN FEMALE.

plenty of muffling. A bird with a head of this description set on a well-arched and full-feathered neck, with the large, stoutly built body, on nice flesh-colored legs, and a good flowing tail, with broad sickles and coverts, the color of rich green black and a pure white, can not but be admired.

"Then add to this fact that they are good layers of large, white eggs and carry an abundance of white, juicy meat on their bodies, also that they are easy to rear, and will do well either in confined runs or otherwise. I think it must be admitted that we have an excellent fowl in the Houdan."

Poultry for City Markets.

The question, "What kind and grades of dressed poultry are the best for our city markets?" is frequently asked. It is oftener asked by small fanciers, who wish to dispose of their surplus stock to best advantage. There is no doubt but that information in this regard would be of value, or at least of interest to many who are interested in this department. Among the better hotels of New York City there are four sizes or kinds of poultry made use of; sizes coming in between go to the family trade and restaurants. The most profitable market at all times is that which consumes the best qualities in good quantities.

The breakfast broiler, or squab chicken, as called by some, should weigh close to two pounds per pair; they should run very even in size, for where they are continually served it would cause comment and ill feeling were one guest favored more liberally than another. These small breakfast broilers sell at one dollar per pair, wholesale, to large hotels, during some seasons of the year, and there is an active demand for them at all times. The quality, however, must be of the best, otherwise the price is cut in two. Only the very best will meet the demand of this high-class trade. Those who select these dainties for their living know well when the quality is right and refuse to be served with an inferior grade.

The regular broiler grade must average from two and one-half to three pounds per pair, and at this time they sell in the market at very little more than the very small ones, during the spring season at one dollar and ten cents per pair. These fancy broilers must be quite plump and full about the breast, else they will not fill the requirements of the purchaser. The ill-formed, scrawny specimens will not do for the first-class trade. When delivered they are usually packed nicely in the crates, in about the same way as are oranges and dates. This attractive style of packing gains many cents per pound in their favor.

Much depends upon the manner of presenting these broilers to the trade. The very best possible to produce may be injured for market by poor preparation or presentation for sale. If those who kill and dress them do not understand the art of doing it nicely, the specimens may be very much reduced in value by being pulled and torn till the broken skin looks bad. Or, if poorly plucked and some of the feathers not removed they will have an undesirable appearance which counts against the value. If thrown together in a careless manner when packed, the good appear-

ance they may have had is destroyed.

When properly killed and nicely dressed they should be packed in rows with the heads turned under so as to slightly elevate the point of the breast, thus being presented as if elevated slightly from rear to point of breast. In this position they look their best. If the shanks and feet are nice and clean and allowed to project as though to be used in handling the fowl, this will be an attractive mode of packing. Such little features when properly made use of help to sell the product at the very highest price.

The most attractive fowls for roasting should weigh four pounds to the pair. These are for a fancy roast to be served for two persons. Such will sometimes sell for one dollar and thirty cents per pair and are usually in good demand. Other sizes are classed as fowls and are used for soup, sandwiches, and cold cuts. The very large chickens are used for these purposes and when considered as fancy table stock the larger they are the less valuable for the fancy hotel and restaurant trade. Such stock will sell for fifteen cents per pound and to obtain this price must be first-class.

These records show that the small, one-pound specimen or squab broiler sells at fifty cents per pound. The next size larger at about thirty-eight cents per pound, the two-pound roaster for about thirty-two cents per pound, and the heavier weights at fifteen cents per pound early in April. These prices are what are paid by hotels to the big supply men for the very best of all that comes for the regular market supply. This grade of stock is not disturbed by over-supply for there is seldom a surplus of this grade. There are also some high-class, fancy grades that go to the most fashionable resorts and clubs, but these are of a separate class and are valued at just what they will bring; often they sell very high.

Those who prepare and care for their stock in a way to bring them under the better grades can always do well with them. This is the kind of market poultry that pays. It would be hard to believe that there could be much of a margin for those who raise the poor, cheap grades, for they sell in the market at prices ranging from seven to ten cents. If all of this goes to the producers it would hardly pay for the food consumed. The small, plump, well-conditioned specimens bring the highest prices.

Why there should be an effort to increase the size of our Wyandottes, which are one of the best, if not the very best fowls we have, is not readily understood, when we know that the most desirable grade for market, in our cities at least, is not the large, heavy specimens, but the close, compact, plump, full-breasted specimen of the medium size that sells the best. The same kind of the lighter weights are the most valuable. In small towns when dressed poultry is sold by the piece or pair for family use size may not be of so much importance, but in New York City it is of great consideration.

The packing of eggs for market is a matter of importance. All white or all brown in separate cases will increase the value over that of mixed eggs or assorted colors. Considerable value is added to the eggs when care is taken in packing to have each case of one color and fairly even in size. Soiled

eggs should never be packed in a case; it would be better to throw such eggs away; careless packing grades the eggs under best table quality and reduces the value. Sometimes a buyer will select and repack mixed eggs and gain the advance, but this lack of care in packing counts against the original packer.

Quality counts for so much in high-class city trade that it will pay those interested to study all manner of methods in presenting their products for sale. Those who make a special effort in this direction will always receive full reward for so doing as soon as they become known in the channels disposing of these products to high-class family trade.

Standard Breeds for Utility.

We should favor the union of fowls for the fancy as well as for market poultry and eggs. The proper selection of a variety according to one's liking might be made. To illustrate: Select, for instance, the White Plymouth Rock, choosing the very best to be had; let every egg laid be used for producing chicks; select from the increase all the high-grade females for breeding-pens; those of modest or poor quality should be housed by themselves. All can be handled for market eggs during the whole year. As the proper time approaches for hatching, the very best males are to be put with the selected females and from these matings hatch for the future supply.

Eggs from the other matings, known as incubator eggs, may be sold, which usually bring, by the hundreds, from three to five cents each. Gradually a sale of a few dozens for hatching, may be made to those who are willing to pay about two dollars for thirteen eggs. As the stock improves they may be gradually worked into the fancy poultry trade, and in this way a plan of pleasure will have been gained without much cost or outlay, the utility or market poultry part of the business having been made use of to keep the poultry with profit while working up the ladder for reputation.

Eggs in Winter.

Only a little profit can come from eggs produced by fowls unless they can be made to lay during the winter months, when fresh-laid eggs are most valuable. The fact that so many do succeed in securing a fair per cent of egg-yield through the winter months, proves the possibility of a greater yield when it is learned more fully what is requisite. It is frequently seen in print, an easy-to-follow statement, "Keep the hens at work; make them dig in straw for all their grain," yet how few do we find who follow these simple instructions? Many scatter the straw but will feed their fowls on the bare ground or in troughs. The object to be desired is to make the hens hunt and dig continually for food that they may have plenty of exercise; exercise is what they need and must have or they will not lay.

Those who pay proper attention to these simple methods succeed, while those who disregard them do not. They bring assured success to those who follow them, but an assured loss if disregarded. Only those who follow the proper methods have any chance to succeed.

FAVEROLLES.

The New French Breed that is Growing in Favor in France and England.

This new breed of fowls came as the result of an effort of the poultry raisers about Faverolle, France, to outrun their competitors about Houdan in the production of high-quality market poultry and eggs. No other country has poultry that will surpass in table quality the fowls of France. When the Asiatic fowls, the Brahma, the Dorking, and our American breeds began to attract general attention, these people about Faverolle brought them all together and united all the several breeds, very much as our Rhode Island Reds have been made from the union of many kinds.

By turning to the records of poultry in France some forty years ago, we find the Houdan, or rather the fowls raised about Houdan, France, the most popular. We give for present-day comparison some of the records as then published, that we may compare them in our minds with what any one locality in our country has done or is doing in this line.

During 1862 at the three markets of Houdan, Dreux, and Nogent-le-roi, there was sold upwards of six million pounds of fat poultry for \$1,200,000. In addition to this the value of eggs and feathers sold was almost as much. The greater part of all poultry kept in these localities was the foundation of what we now call Houdans. At this early day but few kinds or breeds were known among the peasants of France, who are the real producers of the live stock and all other kinds of food that goes to the markets of Paris.

The small farmers about Faverolle crossed all the above-named fowls or breeds of fowls upon the Houdan and other native fowls. The final result has brought into notice several kinds and colors of market poultry called as follows:

The Faverolle Dorking; the Faverolle Brahma, colored like our Light Brahmas; the Black Faverolle, like the Langshan in color; the Faverolle Coucou, colored like the Barred Plymouth Rock. All of these several varieties named to conform with the color they have gained from the cross with the several breeds of fowls from England and America.

The Faverolle Dorking, naturally the most popular in England, has gained a foothold with us. One of our most popular farms having imported quite a number of them the past season, an account of which we give below, as written by Mr. McGrew, who went to Valley Farm to see them. We copy the following from his description of the fowls:

"To Mr. Joseph B. Thomas, Jr., of Valley Farm, at Simsbury, Conn., must go the credit of having had selected for him in England the very best specimens of the new French fowls, 'Faverolles,' for introduction into this country. Mr. Thomas has always shown great preference for the Houdan, of which he has the best to be obtained. They are of the true Houdan type and color. This

love for the high quality of the French fowls has guided him in his selecting of the new French breed for a position at Valley Farm.

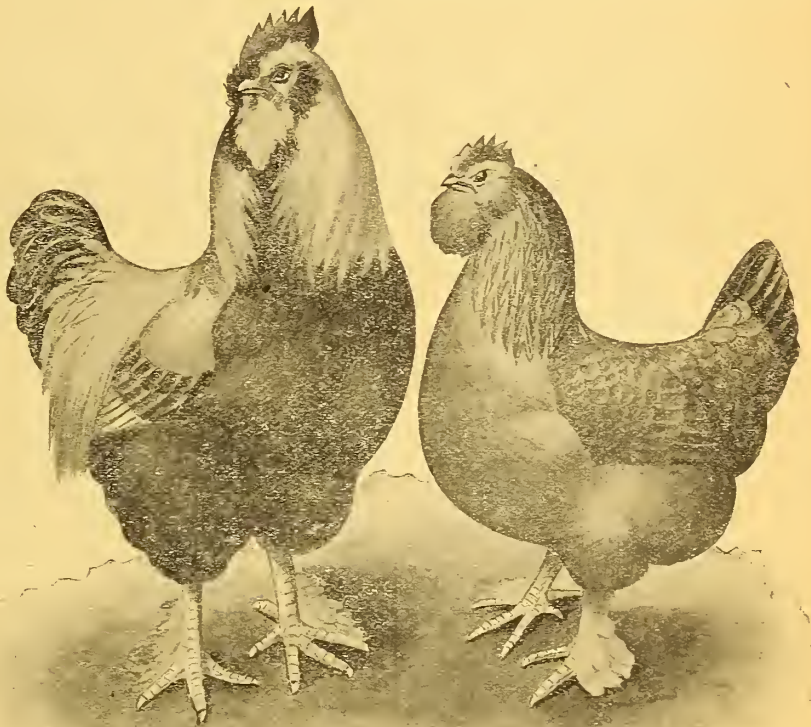
"The new breed selected are the Salmon Faverolles, the latest production of French art in the line of market poultry. They are bred in several varieties, all of which are called after the fowls whose color they have. As, for instance, one kind is called Faverolle-Brahma, having the color of the Brahma.

"The Faverolles at Valley Farm are of the variety that are called Salmon Fa-

equalled since they began to lay.

"We may fully believe that in these new fowls Mr. Thomas has added importance to his flock, and in addition to this he has made it possible for every one to know the real value of this fowl that has gained so strong a hold on the other side as profitable poultry. When the breeders of Sussex turn from the long-tried varieties to consider the possibilities of this new French breed we may feel assured of its quality as well as of its ability to give the best returns as market poultry and egg-producers."

As our illustration shows, the male Faverolle of this variety is quite like the English Dorking in color. In size a full-grown Faverolle is fully as large or larger than either the Dorking or Houdan. They are long in body, very long and full in breast, and show every evidence of being market poultry of the highest order. Not having any established standard color in their native



FAVEROLLES.

Redrawn from *The Feathered World*, London, England.

verolles in England, the females being salmon in color. The color of neck, back, and saddle being darker than the breast and under body-color. The plumage of neck, back, and saddle is laced with lighter color. Several of those at Valley Farm have won high prizes at Paris and Crystal Palace, London. They all show evidence of being the best of their kind.

"They are of large size, shaped quite like the Dorking, have short legs, and full, plump bodies, some feathers on their shanks, and a beard. They are evidently great egg-producers. The three days of my visit there, four hens in one pen laid twelve eggs, one for each hen each day, a record they have almost

land handicaps them as a fancier's fowl. At the same time they present a pleasant pastime for those who love to mold into fine form and beautiful colors all manner and kind of fowls. This work has already begun in England upon the Salmon Faverolle, as selected by them as the most beautiful, and likely to become a fowl of both beauty and utility.

We are informed by Mr. J. F. Crangle, who has the management of Valley Farm under his care, that this new breed will be shown by them at Hagerstown and the Pan-American poultry display in October, also at the large winter shows. Mr. Crangle also informs us that their matings of the past season have proven most successful.

Profitable Poultry.

The real interest in poultry culture centers itself about the possibilities of profit. Most assuredly those who devote their labor and skill in this direction would not do so for pleasure alone. It is a fact that unusual activity in poultry culture has attracted many and created a desire for better information on the subject.

One of the most important appliances in use about our poultry-plants is the incubator. When properly selected and handled many of them will do good work. Quite as much depends upon the operator as upon the machine, and proper ventilation is the keynote to success; unless this is provided no success will come from the machine. Heat may be all right throughout the hatch, but unless the overheated, stagnant air is removed and replaced with properly heated fresh air, no success will be the result. It is natural to suppose that the new supply that continually flows into the machine is warmer than what preceded it; this being true, the warm, fresh air will continually occupy the upper portion of the egg-chamber, and the impure air that is colder and heavier naturally settles into the lower part of the chamber. For this reason the ventilation should be so arranged as to carry off the impure air from all parts of the machine. The ventilation should be so constructed as to carry into the machine at all times a flow of properly tempered air whether the regulator is open or closed.

As to the question of heat, it can not be told positively how much heat the eggs will stand if proper ventilation were applied. It is known that the hen can not overheat her eggs, and beyond this no positive assertion can be made. It is known, however, that the hen fully understands the value of proper ventilation, and does not neglect to give proper care to the eggs placed in her care. It is known that she will, at times, remain away from her nest as long as thirty or forty minutes, while at other times she will only stay away from the eggs a short time.

These conditions constitute about all the information in this particular that has yet been gained from the hen. We know at about what degree of heat she keeps the eggs, and of her habits of going from and returning to her eggs; but we do not know about the working influences of the bottom part of the nest as it comes in contact with the eggs as compared with the more even temperature of the egg-chamber of the machine. These and much more might be considered with beneficial results.

The same may be said of the successful handling of the brooder. We must learn to care for it and assist it to that condition which most closely imitates the animal heat of the hen. Too much heat is the greater danger to the young chicks, as they will silently dream away to destruction under too much heat. On the other hand, they will cry with pain from cold, the effects of which bring injurious ailments. When too warm they will lay about in a dazed manner, but the chilled specimens will soon bring some one to their aid with a continuous chirp of distress. Proper heat and ventilation are of the greatest importance in the brooder as well as in the incubator.

White Fowls.

Mr. Joseph Pettipher in *The Lady Exhibitor*, England, writes as follows:

"The old notion that white animals generally, and white poultry in particular, are necessarily delicate on account of their color, is one that dies hard. A white fowl of any breed is no more delicate than any other color of the same variety if bred on equal terms. A White Leghorn is as hardy as a Buff or a Brown, a White Rock as a Buff or Barred, a White Dorking as a Dark or Silver, and so on in every breed which has a white variety. It is all a question of strain and management. It is quite as easy to have white birds hardy and colored ones delicate as it is to have the reverse. We are generally given to understand that our American cousins lead the way as practical poultry keepers for utility purposes, and yet white breeds are much more largely favored in the States than with us. Take Wyandottes, for instance. In England Whites are few compared with other colors, yet in America they largely predominate. Mr. Hunter, the late editor and founder of *Farm-Poultry*, told me, when on a visit to this country that he got better results, both for table and laying from the White Wyandottes than from any other breed, his second selection being White Leghorns; and I believe his was only one of many large American plants where White Wyandottes are mainly or entirely kept. While at the shows on that side the Atlantic White 'Dotte' classes are often the largest and attract the most attention. Again, with one or two exceptions white breeds have originated from sports of other colors. The White Wyandotte came from the Silver Laced, the White Langshan from the Black, the White Rock from the Barred, etc., etc. These sports have been preserved and bred true by care and selection. What reason is there that they should be less hardy than those from which they sprung? Different colors, like different breeds, are best suited to certain conditions. A white bird is not one to be recommended for a back yard in a large manufacturing town—not because it is less hardy than a black one, but because its color is unsuited to the conditions; it requires a grass run to be seen to advantage, and while it might stand close confinement equally well, it would be folly to keep it under conditions where it could not possibly look otherwise than unattractive, where a black or dark color would look infinitely better. Writing on white fowls in our smart American contemporary, *The Feather*, that well-known authority, Mr. T. F. McGrew, refers to an egg-test made during the month of January, in which two out of the four largest yields of eggs were made by white birds, and further asserts that the largest egg-yields for the winter months yet reported are credited to the Light Brahma, White Wyandotte, Leghorn, and Rock.

Farm Poultry.

The farmer, of all men on earth, should have the best. Every turn in life for him means hard work, each movement should count for something with him, no time should be wasted upon the care of inferior stock of any kind. The inferior milker will not give

full return for care and food, nor will the poor layer pay in her department. It is a fact fully demonstrated that the thoroughbred of all kinds of fowls and animals are most profitable when selected for the work expected of them.

The Leghorn will not prosper in mid-winter if left to the mercy of the elements, nor will the high-bred Jersey gain her living and do her best when forced to depend upon the warm side of a straw stack for both food and shelter during cold winter nights. There is a fitness for all things. There are hens that will lay well and do well all the year around if fairly treated; these same hens must dwindle and die if compelled to shift for themselves. Other cross-bred or barnyard fowls will hustle all winter for their living and live, but no return in eggs will come from them, they are simply an expense and a care for nothing.

We visited a farm the past winter where they had about two hundred hens and were buying eggs enough to clear their coffee, a sample of poor, foolish management. The same hens and house, with proper care given to them, might have produced sixty to seventy eggs per day. No straw in the houses for them to hunt and dig in, but feed-troughs for them to eat their corn out of when fed, and half the time empty water-crocks frozen solid, gave evidence of why they buy their eggs in winter.

Good, well-bred stock properly looked after will pay well in both winter and summer, but no hen of any kind will repay her keep if poorly kept. They must have what they need when they need it, and must be sheltered from the elements in winter as well as the burning sun of summer. No use hoping for egg fruit from a hen that must hustle to keep soul and body together.

The Nest.

Make the nest large enough to avoid crowding the hen, which will cause her discomfort and thus drive her to shift her position more often than is good for the eggs. The nest should be deep enough to hold the heat in a regular degree on the under side of the eggs; there should also be plenty of width all around so that outside influences of changeable weather may not have a bad effect upon the eggs. The hen should be given a fair chance to do her portion of the work. When these matters receive attention, much trouble and disappointment will be averted and better results obtained from the eggs.

The Best Insect Powder.

The Dalmation Insect Powder, sold at drug stores by the pound, is highly recommended. It is the fine dust that kills the lice, not the smell. The vermins' power of respiration is through the body; when this is stopped by dust or oil they die at once. This is why fine dust or powder or grease of any kind is used to kill them. Any insect powder or lice killer that is sold will kill them. But sulphur or lime, or carbolic sulphur or lime will cling to the feathers and skin of the fowls and give them trouble. That which is cleanest for the body of the hen and the young chick and will impart the most comfort should be used.



A BREEDING-YARD OF BLACK MINORCAS.

Specially drawn for THE FEATHER. Copies of this beautiful plate printed on fine, heavy paper, suitable for framing, will be mailed on receipt of 10 cents.

Poultry in California.

The poultry department on a California ranch has always had a good degree of attention, but never more so than at the present time. Many homes are thereby kept supplied with all necessities and there is sometimes a margin. The climate and soil throughout the central part of this State is especially adapted for raising fowls. The sitting hens may begin their work by Jan. 1, and the early pullets be in good condition for winter laying. Those who live in the colder parts of our great country can hardly realize this, and if they could see the style of architecture generally adopted in the building of a hen-house in these parts, might be greatly amused. The house is built upon the ground usually 8x16 feet. Two boards to each corner and one between to give strength to the building. The roof of shakes. The sides and ends of latks, with about an inch and a half space between; a wide board at the bottom and

with some nests and roosts the hen-house is finished. Here in winter and in summer the poultry enjoy the pure air without any sign of a frozen comb, roup, or any of these things.

Increased attention has been given to the raising of Belgian hares. For some time every one was interested. Rabbitries were built everywhere. The increase was rapid, the boom was at its height; then, almost as suddenly, like so many western booms, a rapid reaction set in and the market seemed closed, so that many who had paid a good price for hares and then had gone to some expense in buildings and runs, had on hand a lot of stock away below par, and probably unable to sell them at any price. There seems to be no special liking for the meat of the hare, and people do not care to cultivate a taste for it. Some, however, are very fond of it. During the Belgian hare boom poultry was somewhat neglected, and the Biddie and her proud crower felt very much slighted, but now there is a louder staccato in the cackler's

song and a more vigorous crow in the chanticleer's notes, for they are held in higher repute than ever. After all, what can get ahead of the old hen? She has put her feet down to stay and you can not get along without her, and she has learned that you know it. Give her the best attention.

California is the home of the Lég-horns, Minorcas, and Plymouth Rocks. The mild climate seems to be well suited for the single comb varieties. Many a Californian rancher looks with pride upon his flock of fowls. He feels grateful when the egg-basket comes to his relief as it does very often. The hens delight to roam about over the large ranches.—RANCHER.

Professor A. A. Brigham has ceased to make poultry farmers at the Rhode Island Agricultural College, having gone into the management of the Cornell Incubator Co., he will in the future try to sell to the farmer that which helped to make poultry raising a success.

The Feline Aristocrat.

The early advent of Puss in Boots into courtly society was simply a passing thought as compared with the high position now occupied by cats of royal birth. For many years they have divided the attention of animal-loving people with new varieties of toy dogs, and while the contest among the toy dog fanciers ran high, for or against bat ears for the small bulldog, or as to size and shape of the pug, or any other questions that might be made an excuse for public clamor, those interested in cats, have quietly searched the world over from Alaska to the Orient for all that is beautiful and attractive in domestic felines.

Like the polar bear of the extreme North, the cats from the same locality have the almost impenetrable coat of fur that turns away the winter blast, while the beautifully formed creatures of the Orient have a most delicate skin that is smoothly covered with very short hair that feels as fine as silk and as firm as velvet. The size of these beautiful specimens conforms to their delicate make-up, greatly in contrast with the giants of the cat kingdom that turn the scales at thirty pounds. Among this vast assortment of size, shape, and color every one who loves a cat can find an attractive house pet and companion.

But few people are aware that some kinds of cats must be kept upon the chain continually, or in cages of iron from which they can not escape. But a short time since we saw a savage animal that came from the other side, that had to be continually chained to a post that he could climb; when being led about by the owner he would fly savagely at passers-by; if angered at its owner, no hesitation was evinced in showing both teeth and claws, the use of which was only prevented by the prominent presence of a good, heavy club. No dog in the neighborhood dared to come near his domain and quite a number of cats that were given to midnight wanderings ceased to exist, the result of having come too close to this ill-disposed creature.

We think it is Lady Morreice, of England, that has the most beautiful homes for her cats. She has houses so constructed that the attendants can occupy the front rooms on the first floors, also the second floor, while the first floor rear is given up for the indoor apartments of the cats that have most beautiful enclosed grass lawns adjoining. The comforts provided for these cats go beyond any like conditions known to exist for the convenience of either cat or dog in any part of the world.

Duke Hawthorn, a long-haired white male, has a world-wide reputation, wherever aught is known of cats of this kind. Duke Hawthorn is as familiarly spoken of as a Wilkes or a Membrino horse at our horse show. These long-haired cats are spoken of as Angora cats. They have the long, fine, silky hair like the Angora goat or rabbit, but their proper name is long-haired cats. The value placed on Duke Hawthorn is five thousand dollars. Many of his kittens are said to have been sold at prices well up in the hundreds and so far no one has produced a more valuable cat.

We believe that King Royal and King Max are the two most noted black cats of the long-haired variety, both imported cats that cost so very, very much no

one has induced their owners to state their actual cost. The one that ranks next to these is owned by a lady who lives in New York. This particular cat reigns supreme in the front room, second floor, and goes each day driving with a maid in his victoria, in state that would almost make a queen envious. We question very much whether money could purchase this grand specimen, although only a cat.

The Manx or short-tailed cat is growing into favor. They are a large, smooth-haired cat that has a stub tail that looks as if cut off short. They are one of the most active of all cats and noted for their ability to destroy the very largest rats, and no rat is able to stand against their savage attack. They are very fond of hunting in the fields and underbrush for all kind of game of which they are fond. They are a very fine show cat, and many of the highly favored specimens sell for long prices. They do not seem to covet gentle attention and decline to thrive under close confinement. They are quite appropriate for farm life, especially among the hills, where Nature supplies more attractions for this lynx-like feline, that is so fond of rural domestication rather than of confined city life.

The most peculiar of all cats, to our notion, is the Mexican cat, or, as called by some, the hairless cat from Mexico. This, like the dog that is said to come from the same locality, is entirely without hair. Their peculiarly shaped ears, bright eyes, and tail, truly remind one of the long-talked-of singed cat. This style of cat meets the demand for novelty rather than for attractiveness or beauty.

So far Boston and Chicago have taken the lead in the cat fancy. In Chicago the annual cat show is made quite as much of as is the annual horse show with us. The social gatherings of those who admire fine cats are quite as elegant as are club or musical functions in any locality. Each seems to exhaust their mental ability to contrive manner of decorations for the cats and their cages, the room, and the attendants of honor, while the owners themselves come decorated in the most beautiful creations of modiste and milliner, to contend as to the real merit of their favored kind. No manner of pet can be more attractive, for they continually repay every attention with their sweet, gentle purr of approval, accompanied with a gentle rub of their soft side face against the hand that fondles them, and seem most content when within doors the companion of their mistress.

Clover Croft Notes.

By W. W. KULP.

Editor Jacobs seems to think a six-pound cockerel will cost no more than a four-pound, or an eight-pound Rock than a six-pound Rock. Well, I don't believe it, although I can not give figures. I can give figures and speak from authors that a small hen like a Leghorn will require just about sixty-five per cent of the same ration a Rock will and return more eggs in a year. I mean all birds penned. I believe same conditions exist when at liberty.

The Pan-American gives a lot of "boys" a free show as judges, etc. All I ask is let them put the ribbons where they belong, not look at the catalogue

first. Sorry I am not well enough to worry George for a place too. I do hope they will have a big show and do good to the poultry business.

Any one looking over the *American Fancier* can easily see poultrymen are Oh, so rich! Just see how the oilmen are after their dollar. Whole pages of ads of oil stock. Why would they be there if poultrymen were short of cash?

Two hundred dollars for a cock! and \$50 for hens! How does that sound? I would like to live alongside of the man a little. Perhaps there might be a little history to go with the deal, but they can be worth that much to a man if he knows how to handle them. I would pay it for birds to suit me. Take my Leghorn hen "Queen Esther;" she won about \$50 worth of premiums in a few shows. She was never shown only for advertisement. Who can compute what she was worth as a seller of stock of her strain?

At the last Chicago dog show there were four nice specials offered on one breed. It brought out just one entry. That is a little like the Rose Comb Browns at the last New York; club put up a nice cup, yet but two exhibitors showed up and one of them only entered one bird. We have had several good-sized exhibits at New York of Rose Comb Browns.

Trade seems to start off well this fall. There will surely be good times for those who have the birds and know how to sell them.

I see Mr. McGrew thinks many will condemn the Elm Park folks for feeding once a week. Well, I do not. I think it almost perfect in arrangement. But let all remember that they have a large range, and plenty of grass. I find by experience that fowls can be fed most any old way if they can get all the grass and other things found in the range.

A little experience this season is somewhat out of the ordinary. A friend put up a pen of Leghorns. The run was 8x20 feet only. He bought a lot of nubbins of corn in the fall and had them ground, cob and corn. This he moistened and filled the trough in the morning for all day. They laid extra well, and the eggs hatched fine and chicks were strong. I wonder how many of the things we think are facts about feeding and handling eggs are only guess-work.

The Late Henry Tomlinson.

The sad news is at hand telling of the death of Mr. Henry Tomlinson, of England, which occurred on the 24th of June last. He was for many years the king of Cochins breeders. Some twenty years ago we had from him the best Buff Cochins fowls that we had ever seen up to that time. In all his dealings with the writer he gave more than he promised. His letters contained a world of information. Honest and upright in all his dealings, he was well and favorably known in all lands, and beloved by all who knew him at home.

Mr. Tomlinson was one of the earliest and best writers on Cochins. He has bred them since early in the fifties. Although eighty years old he at the time of his death was an ardent fancier and a true lover of the Buff Cochins fowl. We quote the following lines in his interest:

"While on earth just do your duty,
You're placed here to happy be.
Comfort sorrow. In its beauty
Let mankind this blessing see."

T. F. MCGREW.



THIS department is given over freely to our subscribers. Queries will be answered as promptly as possible and in the order received. Correspondents are requested to write on one side of the paper only, and be brief and to the point. Short articles of general interest to poultry and pigeon breeders, records of laying, recipes for feeding, plans of houses, appliances, etc., are solicited for publication in these columns.

Belgian Hares.

Now that the poultry interest of our country has grown so large and profitable, there is a tendency to look about for all manner of small animals that can be reared in limited quarters at a profit. The latest venture in this line is the Belgian hare craze of the people in and west of Colorado to the Pacific coast. Many thousands of dollars have been invested in the building of hutches and the securing of stock from England. While the Belgian hare is by no means a rare or new breed of rabbits, the tendency towards their production has advanced so rapidly within a few years that one must pay about as much for a well-favored pair of breeders as for a pair of fine cattle. While this excitement lasts those who are in possession of a good-producing lot of hares will do well with them, but as soon as this unusual fancy demand is satisfied, and they are placed on the par of other market food, they must rank in value with other rabbits sold in our markets at very low prices, as we all know.

As it stands to-day the wild rabbits that are shot and killed in many ways, fully supply the demand for this kind of meat, as is shown by the very small price they bring in the market. We have bought them at from fifteen to twenty-five cents each, while in the city markets they sell but little higher in price. Any one that can produce them at a cost that is less than they sell for can make a profit on them, but we doubt very much if the price will ever be more than at the present time, so it is advisable to consider this before being led into the belief that a fortune is in sight for all who will breed them.

These Belgian hares are a species of rabbit that came from Belgium to England, where they were fostered as a fancy or show rabbit. They have been improved in color so as to be very handsome and attractive rabbits. Those who are fond of keeping rabbits of any kind must be pleased with them. They are quite easy to handle and increase very fast; but all this does not make them any better for food than our wild rabbits, only that they are some larger in size.

We can not see why it should be claimed that a fortune can be made by producing them for market, simply because they increase rapidly is no reason for this. If kept in hutches they must be cared for and fed enough food of some kind to make them grow to salable size, and we doubt very much if twenty-five

cents will pay for the food consumed by each one that is kept till three months old; for they must have some hay and oats, they must be fed regularly, their quarters must be kept clean, the floor must have some kind of litter on it fit for them to live in. All of this will cost something, and adds to the cost of their production.

They can be produced cheaper in warrens, but these must be so enclosed that they can neither burrow out under the fence nor go over nor through it. Any land that will grow underbrush or shrubs of any kind will do for the warren, but the land must produce enough for their living. When so bred the only cost is the rent of the land, and their protection from hunters and thieves, but to secure the best results even in warrens they must be well looked after and provided for in winter or many of them will die.

In the warm, southern climate where there is no cold winter weather they, no doubt, could find their entire living in these warrens and could be produced

at very little cost, but the price of them is proportionately small, for in such climate the wild variety prosper as in Australia where they almost overrun the island. There is but one question to be considered in the producing of Belgian hares for market? Can they be produced and sold at a profit? If so, all right; if not, they will prove to be a very expensive lot of animals to have about in any considerable number.

A few of them can be kept by almost any family, and their young are very nice for food. Many keep rabbits of all kinds for pleasure, and consume the surplus stock on their tables, but when it comes to producing them by the thousands for market it is a problem that should be well considered before it is entered upon.

The Goose Trade in Germany.

Frank H. Mason, Consul-General at Berlin, writes:

The domestic goose holds about the same honored place in the nutritive economy of Germany that the more delicately flavored and patrician turkey does in that of the United States. It is the standard luxury of the German people, and during nine months of the year forms the principal feature of the table at festive as well as every-day entertainments.

Although every German village has its flock of geese, and notwithstanding the great numbers that are bred and fattened at farms along the banks of rivers, ponds, and small lakes, the home-grown supply falls far short of the constant demand, leaving a large annual deficit to be filled by importations, which come mainly from Russia. At the height of the season for this traffic the receipts of Russian geese at the Rummelsburg station, in the southeastern

A CLUB OF FOUR.

To increase the circulation of THE FEATHER more rapidly, and as an extra inducement to begin immediately, we have determined to give a club of four yearly subscriptions to THE FEATHER for \$1. This offer is limited to November 1st, and those desiring to take advantage of same should do so at once.

Upon receipt of this Coupon and One Dollar in cash, together with four names, we will send THE FEATHER to each of the four names for one full year. This rate is just one-half the regular subscription price to THE FEATHER, and so liberal an inducement might never be given again. If you are already a subscriber, get three of your friends to subscribe with you at twenty-five cents each, and we will extend your subscription one year from date of expiration of old subscription. Do not send stamps. Make all remittances payable to

George E. Howard & Co.,

305 Tenth Street N. W.,

Washington, D. C.

quarter of Berlin, average about 15,000 daily. A special goose train of from fifteen cars on ordinary days to thirty-five or forty on Mondays brings the birds from the Russian frontier. The cars are specially built and rigged for this service, and carry each about 1,200 geese.

Immediately after arrival, the whole train load is inspected by a corps of sanitary officials. The fat ones are then distributed among the dealers and market men, while the others—and these include the vast majority—are sent to be fattened at farms and feeding establishments in the outlying provinces.

The inspection is exceedingly rigid. If a single goose dies *en route* or is found sick with any disease that can be communicated to others, the whole car load is placed in quarantine for a period of eight days. Should another goose die during this period, the whole lot is kept in quarantine eight days longer at a cost of about 2,000 marks (£95), whereby the loss of the owner becomes so enormous that he is driven to the most extreme care and precaution in all future operations of the same kind. This is the real object of the system—to make the penalty of introducing diseased birds so severe as to render such practice ruinous to the perpetrators.

In certain cases, where the evidence of neglect or infectious disease is not conclusive, the lot is taken to the city abattoir and killed under supervision of the sanitary police, after which such as are found to be free from disease are released for sale at a special auction held in the central market hall, whence the trade name "auction geese," which applies to those which have been slaughtered under police supervision. Those which show no trace of disease, but have been unavoidably injured in transit and are otherwise in good condition, are called "Bracken," and are sold to

certain dealers who retail them for reduced prices, at a special market beside the great market place, where the poorest and most frugal Berliner can find something adapted to his purse.

The aggregate wholesale traffic in geese at Berlin amounts annually to nearly £400,000. To the ordinary observer, all geese are very much alike; but the expert dealers here divide the Russian birds into twenty-one different breeds and categories, which now command in the Berlin market, according to species, age, size, and conditions, wholesale prices varying from forty-three to sixty cents each, though the prices advance with those of the other poultry as the season lengthens from autumn into winter, the great climax of the trade being just before and during the Christmas holidays, when goose in every form, from the plain "Gäsenbraten" of the laboring classes to the *pate de fois gras* of the epicure, dominates the tables of the festive season.

A New Insecticide.

A local daily paper gives the following suggestion for an insecticide, which our readers would do well to try:

"The common gardner larkspur is one of the very best insecticides—the trouble is, one can seldom buy it, and the most of those who need it have no chance to raise it. It should be sown rather thickly and cut when the first flower stalks are well budded. Dry in the shade, tie in bundles and hang where it is dry and airy. Every part of the plant, leaf, stalk and blossom, has the virtue of killing vermin, particularly the vermin which infests living things. For fleas, lice, nits upon cats, dogs and poultry, a washing with larkspur soap, followed by dusting with larkspur, powdered and mixed with corn starch, works wonders. Unlike carbolic soap, the lark-

spur soap is not poisonous—thus an animal licking its coat after the washing is in no danger.

"To make the soap, first infuse a generous handful of dry larkspur stems and leaves in barely enough water to cover for several hours. Strain off the tea, melt some good soap in a water bath and beat the tea into it. Continue beating until the soap cools, and leave the vessel containing it in a warm place for several days. Then cut out the soap and set the cakes to dry. They should have a faint greenish color.

"For the powder, pick off leaves, make them crisp in the oven, rub fine between the hands and sift through fine net. Mix what passes through with the starch, but do not throw away the coarser residue—it serves excellently to make a wash for scalding out bird-cages and so on. In using the powder, part the hair along the animal's back and gently shake it in. The closer the backbone and spaces back of the ears are covered the more certain the effect.

"In the poultry-house larkspur is invaluable. A strong fusion of it, mixed in a whitewash, prevents the minute pests which trouble all sorts of feathered things. Mix larkspur stalks in the nest straw for sitting hens, and shake the powdered leaves mixed with flowers of sulphur well through the feathers on the back and around the neck. Mix the same powder freely in the ashes of the dusting-box."

Does Food Effect the Size of Eggs?

We all know that the size of eggs varies with the breed of fowls, but does it vary any with the richness and quantity of the food fed to them? Asks a writer to the Massachusetts Ploughman.

Have our wideawake agricultural experiment stations any data that will

A COMMON SENSE PROPOSITION

THE MANN'S 1902 Model BONE CUTTER.

New design, open hopper, enlarged table, new device to control feed. You can set it to suit any strength. Never clogs.

Our Proposition is

to send our machine on **TEN DAYS FREE TRIAL**. No money asked for until you prove our guarantee on your own premises, that our 1902 model will cut all kinds of bone cutter. If you don't like it, send it back at our expense.



The reason bone cutting by the ordinary types of machine is such hard work, is that in them no account is taken of the varying degrees of hardness of bones, or the difference in the strength of different operators.

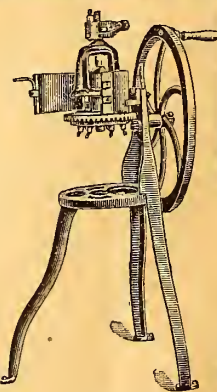
The positive feed machines feed hard bones as rapidly as soft bones and feed to a weak operator as rapidly as to a strong one. The hand feed machine—at best a crude and awkward arrangement—demands not only constant attention from the operator, but a strong left arm to hold the bone against the knives with sufficient pressure to make cutting possible. It is always a tiresome, temper-trying, unsatisfactory process, as everyone knows who has tried it. We have entirely overcome these difficulties in the Mann's 1902 Model. It has an adjustable automatic feed. You can set it to feed as rapidly or as slowly as you like; to run as hard or as easily as you like, to cut as fine or as coarse as you like. For this reason, it is the only machine which a child or a woman can put to practical use.

But that is not all. When you strike a hard place in bone it does not stall. The governor checks the feed the very second the bones begin to cut hard and allows the knives to cut off the portions they have bitten into, without further feeding. In other words,

the machine—without any attention from the operator—feeds soft bones more rapidly than hard bones.

This feed—a very simple device in itself, free from complicated parts—is without doubt the greatest step forward ever taken in bone cutter construction. You need not take our say for this. Accept our proposition. A step forward. Prove it on your own premises.

OUR NEW BOOK explains this self-governing feed in detail and shows how and why the Mann's 1902 Model cuts all bone, meat and gristle free from splinters and chunks; how it discards and wastes nothing that goes into the hopper; how its knives are easily sharpened and adjusted; how it cuts more rapidly than others; how its knives are in action all the time and not waving idly in the open air; how the hinged open cylinder gives instant access to all working parts for cleaning the machine and removing or adjusting the knives; how it is free from breakages and how you may try it before you buy it.



F. W. MANN CO., Box 61, Milford, Mass.

Bone Cutters, Clover Cutters, Corn Shellers, Granite Crystal Grit, Swinging Feed Trays, Etc.



throw light on this question? If not, it certainly is worthy of investigation.

The results from my own experience incline me to take the affirmative on this question. I know that my eggs average larger than those of my neighbors, with a constancy that difference in breeds or age of the fowls will not explain. I keep about the same varieties, and all of us have a greater or less proportion of old fowls.

My practice has been to feed most abundantly and but once a day with mixed grain in sufficient quantity to leave generally a little surplus over. I feed also boiled potatoes and drop in occasionally cabbage and clover. My fowls, therefore, have food always before them.

The economy of this plan will, I know, be questioned by many, but I have averaged in a flock of about twenty-five hens nearly 160 eggs annually to a fowl, though kept cooped up all the year, and when killed they are fat as butter. It will be difficult to file a reasonable bill of complaint against my method.

I am the more inclined to a liberal style of feeding because of the fact that most of my grain is seedhouse waste, which could not be readily utilized in any other way.

(It is claimed to be an established fact that hens liberally fed upon a variety of food will lay larger sized eggs than will be laid by the same hens if fed sparingly upon a single diet. Ground green bone or beef scraps liberally fed will increase the size of their eggs.—Editor.)

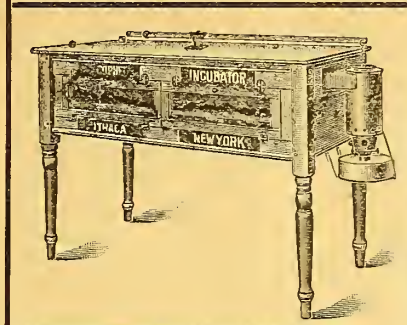
Egg Instead of Pill.

A Philadelphia physician advances a theory which, while given in a spirit of jest, nevertheless is based upon authentic scientific experiment. "It looks," says the jocular medicine man, "as though we doctors would be driven to the wall, and by that humble but useful fowl, the hen. You see, it is this way. A French chemist has discovered that certain drugs, notably those containing iron, can best be assimilated by the human stomach when taken in albumen of eggs. He has accordingly mixed his medicines with cracked wheat and corn and in this form has fed it to hens. The eggs laid by these hens have been found to be impregnated with the medicinal qualities of the drugs, and are said to have been very beneficial to patients. The Frenchman has experimented with pepsin and camomile, and says he will try other drugs. This is a matter of medical record. But the point I want to make is this, and it haunts my dreams: Is the time coming when a man can dispense with a doctor and keep a hen? When he has a bad cold instead of sending for me will he get his hen to lay him a quinine egg? If he has indigestion will he take a pepsin egg instead of seeking my advice? When the waiter of the future asks you how you will have your eggs the question will possess an entirely new significance. I tell you the question is appalling."—*Philadelphia Press.*

Uses of Kerosene.

Kerosene is invaluable around a poultry-ranch, writes a correspondent in the *Twentieth Century Farmer*. It is a simple remedy for many troubles. Put it on the roosts frequently; it will help

Cornell Incubators and Brooders



Self Regulating, Self Ventilating,
Neat Appearing,
Simple in Construction,
Reasonable in Price.

Are the latest and most modern inventions for artificially hatching and rearing chickens.

The great superiority of the Cornell Incubators and Brooders is due to the regulation of ventilation and heating.

No fowl air or poisonous gases can accumulate in the egg-chamber to poison or destroy the germ, as in the case of nearly all other makes.

Our new improved Brooders are also automatically heated and ventilated. You can keep the heat at a constant temperature, with no cold corners nor hot spots in which the chicks will crowd. Send for free descriptive catalogue. If the machines do not please you send them back. We will refund the money.

Buy the Cornell and Get the Best

Hot-Air Incubator and Brooder ever put on the market. Write to-day.

The Cornell Incubator Mfg. Co.,
Dept. G, Ithaca, N. Y.

keep the lice in check. Dilute it with sweet oil (about one-third of sweet oil and two-thirds kerosene) and inject in nostrils, roof of mouth, and corners of eyes if your fowls have colds. Scaly legs are cured with it properly applied, and an internal dose will help in many cases. An easy way to apply kerosene to the legs and feet of fowls to destroy the insects which cause the scaly excrescences which sometimes appear is to fill an empty can two-thirds full of water, pour two or three table-spoonfuls of kerosene on the water and dip the feet and legs of the affected fowls therein. Two treatments always prove effective.

(If you will dip the legs and feet once or twice into pure kerosene it will be better than above. The mixture of water and oil on the shanks and feet will not act so well as the pure oil. After two or three dippings in the oil once each day, scrub the shanks and feet well with a stiff brush, soap and warm water. A pound of naphthaline balls to a gallon of kerosene will be better to kill lice than the oil alone.—Editor.)

Feeding for Eggs.

A writer in the *Pacific Rural Press* is well pleased with a system for eggs he adopted several months ago. It has given excellent results. In the first place mashies of all kinds are discarded. The system is one of dry feeding. The morning ration consists of bran, corn-meal and steamed alfalfa. A very light feed of wheat is given at noon, scattered in straw; also grass, finely cut. At night wheat, corn and crushed barley, in equal quantities, are fed, in straw, to promote exercise. A goodly amount of charcoal is mixed with dry meal; also, two or three times a week, oil cake meal, new process.

Too much can not be said about the advisability of feeding meat-meal once a day. Its use is increasing all over the country year by year. It stands one in hand, though, to procure a guaranteed article. Says a West Virginia Experiment Station Bulletin: "It is well known that ground fresh meat and bones is a very valuable constituent of a ration for egg-production. In many localities, however, it is difficult to procure fresh bones and scraps from meat-mar-

kets, and even when a supply is constantly available, it is not usually an easy matter to grind the material for the fowls. On the other hand, beef scraps and meat-meal can be bought of the poultry supply house at any time, and being in a thoroughly dry condition can be readily mixed with other feeding stuffs."

(Dry bran and middlings, when fed in boxes or troughs, are well liked by all land or water fowls, both young and old. Some keep it constantly before their growing stock. One who breeds Cochins informs me that his young stock would consume a peck a day of dry bran from troughs; he had about 200 chicks. Bran and middlings are good for growing stock of all kinds.—Editor.)

Breeding from Diseased Fowls.

The fate of a sick mongrel is to have its head cut off, but what becomes of the diseased high-scoring bird? Who would think of killing a ninety-five point bird just because its head swelled up? It would be doctored and fussed with until all visible signs of disease were gone, then into the choice pen it goes to contaminate all the rest and produce offspring subject to the same disease and very likely become afflicted again itself with the first change of weather. If this is not true, why do we see so many articles on the treatment of swelled head, roup, etc.

About ten years ago I saw the effects of doctoring sick fowls. Roup got a start in our midst from the yards of a poultryman who lived on very low ground. The neighbors that did not buy eggs or stock "traded eggs" because he had a new breed. The consequence was half the chickens were "roupy." Some treated their birds very sensibly, while others dosed theirs with anything recommended. Some of us used the hatchet on all sick fowls, good or bad. That soon cleared things up for the better, but each year a few cases would crop out until all of that diseased blood was bred out. There has been a general change of breeds since, and roup is hardly heard of here now. I have not seen a case of roup for several years.

It takes grit to butcher, right and left

among your pets, but always remember you are saving the lives of what are left. Some claim they can cure roup, but just so long as they try it just so long will it keep cropping out when least expected. I would as soon breed from a glandered horse as a diseased fowl.—*Breeders' Advocate*.

(While this is strong language that points to expensive destruction, we fully believe that it is quite as dangerous to breed from a roup fowl or from one that has the taint of disease in its blood, as to breed from a horse with the glanders or a cow that has tuberculosis. The greatest of care should be given to the selection of all kinds of fowls and animals that are used as breeding stock or for market.—EDITOR.)

A Year's Results of Intensive Culture

"The summary of a full year's poultry culture by my methods shows as follows, from Oct. 1, 1899, to Sept. 30, 1900: Largest number of hens per month, 205; smallest number, 143; average number of hens for twelve months, 170; eggs laid, 10,691; average eggs per hen, 63; highest number of hens laying in any one month, 159; lowest number, 25; average number of layers per month, 95; highest number not laying any month, 135; lowest, 39; average number not laying per month, 75; average eggs per laying hen for twelve months, 112½; value of eggs, \$238.43; value of fowls sold and used, \$63.25; total receipts, \$301.68; cost of food, \$179.50; net receipts, \$122.18; average per 170 hens, 72c. each; average per 95 layers, \$1.28 each."

The above clipping is from *The Country Gentleman*. It is part of a report made by Mr. Wallace P. Willett. This record shows that considerable care and attention has been given the hens, and while the result is far below the general average of laying hens, it shows what can be made from the proper care of fowls. The most interesting part of this report is given below:

"Hatching record—number of eggs set, 2,782; number of chicks hatched, 625; value of eggs, \$58; cost of feed to Sept. 30, 1900, \$40; value of chicks sold, \$52; net cost of 150 chicks on hand, Sept. 30, 1900, \$46."

This record shows that about twenty-three per cent of the eggs set produced living chicks, or a loss of seventy-seven per cent of all eggs set. This enormous loss of infertile eggs is a question for consideration, for the facts are that this condition is by far more general than is admitted. We hear complaints of poor hatches from eggs that are sold for hatching. If the above is a fair sample of home production what can those who buy for hatching hope to secure?

Homing Pigeon Flight at Hagerstown.

Editor *The Feather*:

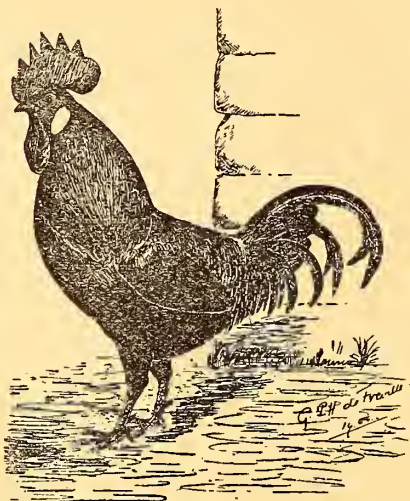
In behalf of the great Hagerstown flight of Homing Pigeons, which takes place on Wednesday, Oct. 16th, of which I have the honor of acting as superintendent, will say I have received very favorable answers from New York, Brooklyn, Philadelphia, Pittsburg, Boston, Baltimore and Washington. Our Washington boys are very enthusiastic, indeed, and promise to enter a great

many more birds in this flight than they did last season, which was the largest liberation of birds entered by any city competing. In addition to silver cup and diplomas awarded by the Fair Association in this grand race, I will present the winner of any two (2) diplomas a pair of pedigreed Belgian hare youngsters, from the best blood contained in the Ideal Rabbity.

Fraternally yours,
E. L. BARCLAY,
Superintendent.

An English Type.

Mr. Chas. L. Blanton, secretary of the American Black Minorca Club, is in receipt of the following letter and drawing from Mr. G. P. H. de Treville, Horsepools, Stroud, Gloucester, England, which we reproduce and which explains itself.



English Type of Black Minorca Male.

"Seeing about the Black Minorca Club catalogue, I should much like a copy if you will send me one. I enclose a sketch of a Black Minorca cock, to show you something of what they like here. It is not high enough on the legs, quite, and might have half as much lobe again and there would not be too much! How would you like that? How about a lobe 2¼ inches deep and 1½ inches wide at widest part?"

Selecting the Eggs.

The selection of eggs for hatching is of more importance than is usually accorded to it; poorly shaped eggs are not desirable; very small eggs of their kind will produce unusually small chicks of the breed. The very best for incubation are those of fair size and regularly formed, and that look bright and healthy. What is meant by healthy-looking, is eggs that have the finished smooth shell, not the rough shell having an old and dull appearance. Eggs laid by matured hens or well advanced pullets are the best. Eggs of the young pullets are more than likely to bring forth undersized chicks, for the breed, and usually produce smaller and less rugged chicks. Eggs of an equal size will do better under the hen and are less likely to be broken.

"Well, I Should Cackle!"

The hen said when she laid an egg after taking
OVAMEAD THE GREAT
EGG PRODUCER
It invigorates the egg-producing organs and
MAKES HENS LAY.

Enough for ten fowls, 3 months, 50c., postpaid.
Trial package 25c. postpaid. Send stamps for one
OVAMEAD MFG. CO. Box 44, Rochester, N.Y.



Yes, things are

coming our way faster than ever.

Like a hungry fox after a choice fowl Poultrymen seem to be hungry after our **Clover Products**, for before last season was half over we had exhausted all the available clover in this part of the country, but in a year, having ten times the acreage under our control, being located in the heart of the clover district of America, having the largest and most complete plant for getting out **Clover Products** we defy competition both in quality and price and can now fill orders which are accompanied with cash, within 24 hours after they are received for what it costs others to manufacture it. (50 lb bags) 2 bags, 75c. ea.; 5 bags, 65c. ea.; **CLOVER MEAL** 17½c. a bag higher. **GROUND BEEF** here or Chicago (100 lb bags) 1 bag, 82c.; 2 bags, 81c. ea. **C. O. SHELLS** (100 lb bags) 20 bags, 27½c. each; 5 bags, 35c. each. **FLINT GRIT** (100 lb bags) 20 bags, 25c. each; 5 bags, 33c. each. **M. C. GRIT** (100 lb bags) 20 bags, 35c. each; 5 bags, 43c. each. **PULVERIZED CHARCOAL** 25 lb bags, 3c. a lb; 100 lb, 2½c. a lb. A few **SUN FLOWER SEEDS** 50 lb bags at 5c. a lb while they last. **LA PORTE'S FRENCH INSECTICIDE AND DISINFECTANT** an unexcelled lice powder, 12 oz postpaid, 30c.; 10 lb bx, 16c. lb; 10 lb bx, 16c. lb; in allible Fly Protector to Cows and Horses. Agents wanted. **CLEVELAND POULTRY CO.**, Plattsburg, N.Y.

Many Winners

For fall and winter shows are among the birds we offer in Barred and Buff P. Rocks, Buff and White Wyandottes, and Pekin Ducks.

We can spare—

25 cocks.....	@.....	\$3 upwards.
200 hens.....	@.....	1 50
300 cockerels..	@.....	3
200 ducks.....	@.....	1
40 geese.....	@.....	3

The cockerels were selected from over 1000 bred from our winners, and are March, April, and May hatch. They will make splendid breeding and show birds.

We guarantee every bird to please or they may be returned at our expense and we will cheerfully refund your money.

Write us your wants and receive free illustrated catalogue of

Millville Poultry Farm Co.,
Box H, Millville, N. J.

M. F. DELANO, Pres. and Mgr.

(Trade Mark.) Zincro Paint.

This is undoubtedly the most effective insecticide known. One single, thorough application of it to inside walls, perches, nest boxes, dropping boards, etc. of

Poultry Houses

will free them from mites and lice for years. We deliver it free to your nearest railroad station. You apply it in accordance with directions, and if it does not do exactly what we claim after a year's trial, we will send your money back. We are responsible, and our guarantee is good or this paper would not publish our advertisement.

ZINCRO not only protects against insects, but prevents all decay. Wood painted with it lasts three times as long as plain unpainted wood. It gives a handsome, lustrous color; lasts five times longer than linseed oil paints and costs less. If you can't get it from your dealer, write us direct for circulars, prices, etc. It is equally effective for painting pig pens, cow barns, dairy buildings, barns, etc. Address,

United States Paint Co.,

P.O. Box 2149, New York, N. Y., U.S.A.

A Daily Record.

Mr. Maurice Ruddlesden, Rose Croft, Md., sends the following daily record of a Star Incubator which he purchased from the Southern Poultry Supply Co., 429 Eleventh Street, N. W., Washington, D. C.:

July 7, 1901. Started heat in incubator, 6 a. m., thermometer 75 degrees; 12 a. m., thermometer 100 degrees; 6 p. m., thermometer 102 degrees.

July 8, 1901; 6 a. m., thermometer 102 degrees; 4 p. m., thermometer 102 degrees. Put in incubator 260 eggs at 4 p. m., opened ventilator $\frac{3}{4}$ inch.

1st day, July 9, 1901; 6 a. m., thermometer 102 degrees; turned eggs 7 a. m. and 6 p. m.; cooled down to 90 degrees.

2nd day, July 10, 1901; 6 a. m., thermometer 102 degrees; turned eggs 7 a. m. and 6 p. m.; cooled down to 90 degrees.

3rd day, July 11, 1901; 6 a. m., thermometer 102 degrees; turned eggs 7 a. m. and 6 p. m.; cooled down to 90 degrees.

4th day, July 12, 1901; 6 a. m., thermometer 102 degrees; turned eggs 7 a. m. and 6 p. m.; cooled down to 90 degrees.

5th day, July 13, 1901; 6 a. m., thermometer 102 degrees; turned eggs 7 a. m. and 6 p. m.; cooled down to 90 degrees.

6th day, July 14, 1901; 6 a. m., thermometer 103 degrees; turned eggs 7 a. m. and 6 p. m.; tested eggs found thirty-six infertile eggs.

7th day, July 15, 1901; 6 a. m., thermometer 103 degrees; turned eggs 7 a. m. and 6 p. m.; cooled down to 90 degrees.

8th day, July 16, 1901; 6 a. m., thermometer 103 degrees; turned eggs 7 a. m. and 6 p. m.; cooled down to 85 degrees.

9th day, July 17, 1901; 7 a. m., thermometer 103 degrees; turned eggs 7 a. m. and 6 p. m.; cooled down to 85 degrees.

10th day, July 18, 1901; 6 a. m., thermometer 103 degrees; turned eggs 7 a. m. and 6 p. m.; cooled down to 85 degrees.

11th day, July 19, 1901; 7 a. m., thermometer 103 degrees; turned eggs 7 a. m. and 6 p. m.; cooled down to 85 degrees.

12th day, July 20, 1901; 6:30 a. m., thermometer 103 degrees; turned eggs 7 a. m. and 6 p. m.; cooled down to 85 degrees.

13th day, July 21, 1901; 6 a. m., thermometer 102 degrees; turned eggs 7 a. m. and 6 p. m.; cooled down to 85 degrees.

14th day, July 22, 1901; 6 a. m., thermometer 103 degrees; turned eggs 7 a. m. and 6 p. m.; tested eggs and found ten eggs decomposed; leaving 212 eggs in the incubator.

While testing, about 9 a. m., an accident occurred to the thermometer, the bulb of the thermometer broke through falling, owing to a defective clasp; the record of the thermometer when I last took the record was 103 with the damper lightly swinging open; being without a thermometer I was fearful of results. I went to Washington the morning of the 23rd and purchased a thermometer, reached home about 12 noon; at 1 p. m. the thermometer registered 103 degrees, the same as when I last took the record; showing that the heat furnished by the Star Incubator system is perfect and can be relied upon in every emergency.

15th day, July 23, 1901; 1 p. m., thermometer 103 degrees; turned eggs 6 p. m.; cooled down to 85 degrees.

16th day, July 24, 1901; 6 a. m., thermometer 103 degrees; turned eggs 7 a. m. and 6 p. m.; cooled down to 82 degrees.

17th day, July 25, 1901; 6:30 a. m., thermometer 102 degrees; turned eggs 7 a. m. and 6 p. m.; cooled down to 85 degrees.

18th day, July 26, 1901; 6 a. m., thermometer 103 degrees; turned eggs 7 a. m. and 6 p. m.; cooled down to 82 degrees.

19th day, July 27, 1901; 6 a. m., thermometer 103 degrees; 12 noon, thermometer 103 degrees; 6 p. m., thermometer 103 degrees.

20th day, July 28, 1901; 6 a. m., thermometer 103 degrees; 12 noon, thermometer 104 degrees; 6 p. m., thermometer 104 degrees; eggs pipped in tray next to incubator-lamp and begin hatching.

21st day, July 29, 1901; 6 a. m., thermometer 105 degrees; 12 noon, thermometer 105 degrees; chickens hatching all day.

July 29th. Hatcher 202 chickens, strong, healthy, and vigorous. After carefully and intelligently watching and recording the working of the Star Incubator and the variation of the temperature, moisture, and ventilation, I am convinced beyond a shadow of a doubt that the Star Incubator will hatch out every fertile egg, and only requires faithful attention to small details to secure a good hatch. The chickens are stronger and more vigorous than

when hatched by a hen, are free from lice and vermin, which is fully twenty per cent in favor of the young chicks living. It furnishes moisture and the turning of eggs by the turning of the tray is perfect. Variation of temperature during the hatch was one degree. Owing to the average temperature outside being at least 70 degrees during this hatch, it was difficult to cool down the eggs to the proper temperature, so I waited until about one hour after sunset to cool.

ROUPALINE is guaranteed to cure Roup. 100 doses 25c. It's a medicine, not a dope to put in the water. Money back if you want. A. S. WACKERMAN, 322 Melvin Street, Cleveland, O.

TOO LATE FOR CLASSIFICATION

BARGAIN—7 good Buff Rock hens and a cockerel, \$1.50 each or all for \$10. Printing press wanted. W. W. ROBB, New Philadelphia, Ohio.

FIRST-CLASS April hatched cockerels and pullets for sale. White Wyandottes, S. C. White, Brown, and Buff Leghorns, S. C. Black Minorcas, and Houdans. Cockerels, \$1 to \$5. Pullets, \$1 to \$2. J. M. CASE, Stony Point, N. Y.

\$1000 TO INVEST with services in poultry business; have some experience, and can furnish undoubted references as to business qualifications, character, etc. Address with full details as to location, capacity, etc., "BREEDER," care of THE FEATHER.

WHITE HOLLAND TURKEYS, bred from the winners at Madison Square Garden. A fine lot of yearling birds for sale; also hundreds of young birds that have the large bone you need to improve your flock, some choice exhibition birds including the 2d old tom, 1st and 3d prize young toms at Madison Square Garden, 1901. A. J. KREUTER, Fayette, N. Y.

WE HAVE PRIZE WINNERS...

Waiting for fall and winter shows to offer you. **White Wyandottes and Light Brahmas.** Young stock from strains that furnished prize winners at Boston, New York, and other large Eastern shows. Eggs from best matings, \$2 per 13.

CHERRY HILL POULTRY FARM, Cherry Hill, N. J.

DON'T WRITE ME...

Unless you want stock as good as the best at reasonable prices. Order early and get your first pick. I have some bargains in early-hatched chicks. Over two thousand birds to select from. White and Barred Plymouth Rocks, R I Reds, Light Brahmas, and White Wyandottes. Also eggs for setting. Write for full particulars.

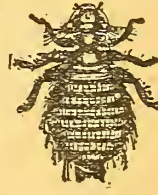
Goodrich Poultry Farm,

Lock Box 5, West Duxbury, Mass.

B. F. GOODRICH, Proprietor.

25 KINDS of LICE

Infest Poultry and other Livestock.

**Orr's Liquid Lice Killer**

Will Destroy them all if given a chance to do so. No other so Prompt and Effective. It has stood the Test of 20 Years.

Applied with Brush to Perches or Sprayed into Cracks and Corners. Booklet and Testimonials, Free.



Ask dealer for it, or send \$2.00 for One Gallon, Sprayer and Brush, Express Prepaid.



ORR & COOPER,
552 LIBERTY STREET, PITTSBURGH, PA.

Shows and Associations.

The annual meeting of the Costly Fishing Club will be held at the Arlington Hotel, Buffalo, N. Y., Oct. 24, 1901. John L. Cost, president; J. F. Crangle, secretary, Simsbury, Conn.

The eighth annual exhibition of the Manchester, N. H., Poultry Association will be held Jan. 21-24, 1902. D. J. Lambert, C. A. Ballou, and J. F. Watson will judge. W. B. Sanford is secretary.

The sixth annual show of the Fitchburg Poultry and Pet Stock Association will be held at Fitchburg, Mass., Dec. 31-Jan. 3, 1902. The secretary is J. L. Frost, who will be glad to give all information regarding same.

The Poudre Valley Poultry and Pet Stock Association will hold their sixth annual exhibition at Fort Collins, Colo., Jan. 28-Feb. 1, 1902. C. H. Rhodes, of Topeka, Kans., will judge. W. H. Pring, Fort Collins, is secretary and treasurer.

The sixth annual exhibition of the Upper Iowa Poultry Association will be held at Mason City, Ia., Dec. 17-20, with F. H. Shellabarger as judge. The officers of the association are Ade Randall, president; John D. Reeler, secretary; J. R. Bliss, treasurer; James Penny, superintendent.

We are in receipt of the very handsome annual catalogue of the Buff Wyandotte Club. It is beautifully printed on fine buff paper, and is a credit to all concerned in the making. It will be found of real value to all interested in Buff Wyandottes. Send for a copy to the secretary, W. R. Wooden, Battle Creek, Mich.

The Mississippi Poultry and Pet Stock Association will give its first show during the Elks Carnival at Aberdeen, Miss., Oct. 7-12. They expect from 30,000 to 50,000 visitors during that week, and this is a good opportunity to show your stock. The secretary is Jno. R. Young, Aberdeen, Miss., who will send catalogue on application.

The Sanatoga and Schuylkill Valley Poultry, Pigeon and Pet Stock Association will hold its eighth annual show in Auditorium, Saratoga Park, Nov. 27-30, 1901. In addition to the regular cash premiums a fine list of specials will be given. Any information will be cheerfully given.—J. B. Hoffman, secretary, Sanatoga, Pa.

The advance catalogue of the Maine State Poultry and Pet Stock Association has been received. This is to be followed by the complete catalogue to be published in November. The officers are as follows: Chas. L. Cushman, president; I. V. McKenney, vice-president; Geo. P. Coffin, So. Freeport, Maine, secretary; A. L. Merrill, Auburn, Maine, assistant secretary; H. C. Day, treasurer.

A new specialty club, the International Bantam Breeders' Club, has been organized with the following officers: Mrs. Azema J. Kimmey, Morgan Park, Ill., president; M. J. Purvis, Chicago, W. S. Cobb, Jackson, Mich., and A. E. Blunck, Johnstown, N. Y., vice-presidents; E. J. W. Dietz, Downers Grove, Ill., secretary and treasurer. The next meeting of the club will be held at Chicago during the Chicago Show, Jan. 20-25, 1902. For further information address the secretary.

The eleventh annual meeting of the American Plymouth Rock Club will be held at Philadelphia, Pa., Dec. 30, 1901.

By order of the executive committee a special meeting of the club will be held at the Pan-American poultry exhibit, Buffalo, N. Y., Oct. 24. The club's special premiums added to those of the Exposition insures a large and choice display of Barred Plymouth Rocks. Send four cents for postage to the secretary, H. P. Schwab, Rochester, N. Y., for one of the new catalogues, of great value to all interested in Barred Rocks.

To Members of the American Poultry Association:

Having received the requests of five or more members of the Executive Committee of The American Poultry Association to call an extra meeting of the association at Buffalo, N. Y., in connection with and at the time of the holding of the Pan-American Exposition, to be held Oct. 21-31, 1901; in pursuance of said requests, and in accordance with Article 1 of the By-laws of said association such extra meeting is hereby called to meet at Buffalo, N. Y., in the New York State Building, Pan-American Exposition, Oct. 20, 1901, at eight o'clock p. m. Fred L. Kimmey, president; H. A. Bridge, secretary and treasurer.

The Kansas City Poultry Club will hold its show on Dec. 6-8, 1901, W. S. Russell and T. W. Southard, judges. Our club has fifty members, all breeders, who will extend a welcome to all who come, and see that they secure a square deal. We offer a reduced entry fee and a reduced price of admission. A call has been issued for the breeders of the West to meet in convention at Kansas City Dec. 7, 1901, for the purpose of forming an Inter-State Association to hold a great western show in Kansas City yearly, this association to be controlled by a board of representative breeders outside of Kansas City. For information address C. S. Hunting, secretary, 3817 East 13th Street, Kansas City, Mo.

The first annual catalogue of the American Polish Club is now ready for distribution. It is neatly printed and contains timely and useful articles on the Polish fowls. A copy of this catalogue may be had free for the asking, and one should be in the hands of every breeder of this variety.

A special meeting of the club will be held at Buffalo, on Friday, Oct. 25, at 3 p. m., during the Pan-American poultry show, and all members and breeders are urgently requested to attend and make an exhibit. The club offers an elegant silver loving cup, value \$25.00, for the best cock, hen, cockerel, pullet, and pen, (nine birds in all) any variety of Polish; competition open to the world. All interested in Polish are invited to join the club. Membership fee, \$1.00. Annual dues, \$1.00. M. V. Caldwell, secretary, Route 2, Leetonia, Ohio.

To the Members of the Club and Breeders of Buff Plymouth Rocks

It is anticipated that the poultry exhibit at the Pan-American will be a large and most interesting one. As will be noticed in the premium list, many of the largest specialty clubs will hold a meeting during the show. Ours will be held at 2 p. m. Thursday, October 24th, at which time we hope all who can will attend. Pursuing our liberal custom, as in the past, and desiring to have a strong competition, the officers of the club have decided to offer the following

special premiums, to be competed for by members of the club only:

Silver medal for best cock, hen, cockerel, and pullet, by one exhibitor. Silver medal each for best cock, best hen, best cockerel, best pullet, best pen. Bronze medal each for best-shaped male, best-shaped female; best surface colored male, best surface colored female; best male with best head, best female with best head.

It is hoped that these valuable specials, in addition to the liberal premiums open to all, offered by the officers of the Pan-American, will have the desired result in bringing out former exhibitors as well as many new ones. Breeders and fanciers who are not members of the club are cordially invited to join. Send application at once—together with \$1 membership fee and \$1 annual dues to W. C. Denny, secretary, Rochester, N. Y.

BUSINESS OPPORTUNITIES IN THE NEWLY discovered gas and oil regions. Thousands have secured homes and fortunes by obtaining employment or engaging in business. "Business Opportunities" will give you trustworthy information as to localities where large capital is being invested, labor is most paid, and opportunities for business are most attractive. If you are not satisfied with present conditions, desire a home and a new field of activity, subscribe at once. \$1 per year; 3 months' trial subscription, 25 cts. Address

Publisher "Business Opportunities,"
1843 Wabash Avenue,
DEPARTMENT 146. CHICAGO, ILL.
"The best opportunities are the earliest ones."

A Bill of Fare



This is where Lambert's Death to Lice Remedies come in.

A Fall Fair

It is good place to show the product of you skill at poultry raising. The competition is such, that no lousy, skinny birds stand a ghost of a show of winning any of the best prizes. You can use Lambert's Death to Lice Powder on your birds while they are in the show-coops, but to get most benefit from this remedy, it ought to be used for weeks before showing.

The Regular Fare

Of every well-kept poultry-yard includes all the necessities for growth, fattening, and the production of eggs. Yet you can feed everything under the sun and house the flocks in gilt-edged palaces, and still you will need to treat them for lice or they will continually harbor vermin. Grain is too high in price to feed to lice. You can save the cost of a box of Lambert's Death to Lice on your feed bills by using it often and liberally.

A Fair Offer

Death to Lice Powder for dusting large chickens and fowls, 10c. and 40c. by mail postpaid; larger sizes by express from here or nearest agency, 48 oz. 50c., 100 oz. \$1.

Death to Lice Ointment for head lice on chickens and children, also scaly shanks on fowls 10c. and 25c. by mail.

Death to Lice Special for dissolving in white-wash or mixing with the regular powder when used for moths and fleas, 10c. and 40c. by mail.

Samples of each of the above 10c. sizes (three kinds) sent by mail for 25c. if ordered at one time.

Death to Lice Liquid for painting and spraying roosts for mites, spraying cattle for flies, etc., 1 qt. 35c., 2 qts. 60c., 4 qts. \$1, by express from here or nearest agency.

A 64-page book free for the asking.

D. J. LAMBERT,
Box U, Apponaug, R. I.

85c. for 100 Sq. Ft.
with caps and nails of

SWAN'S EXTRA HEAVY FELT ROOFING FOR POULTRY-HOUSES.

SAMPLES AND CIRCULAR FREE.

PAINT YOUR POULTRY-
HOUSES WITH . . .

Swan Brand Cold Water Paint.

Send for Color Card.

ADDRESS THE A. F. SWAN CO., 112 Nassau St., N. Y.

The sixth annual exhibition of the National Fanciers' and Breeders' Association of Chicago, will be held in that city Jan. 20-25, 1902. The officers are as follows. W. W. Hogle, president; A. D. Lowell, first vice-president; F. B. F. Rhodes, second vice-president; Fred L. Kimmey, 333 Manhattan Building, Chicago, secretary; L. B. Richardson, treasurer.

Editor The Feather:

Arrangements for the Washington Show are being pushed rapidly forward; the poultry, pigeon, and Belgian hare men are working in unison, and every indication points to the most successful exhibit of stock ever seen here.

The Show Association deserves great credit, and hearty support by every breeder, especially those of Belgian hares. The poultry and pigeon fanciers had already gotten together, organized, and made preliminary arrangements for the show when the Belgian hare men asked that a department for their specialty be provided. The association made a most liberal offer to the Belgian hare breeders of Washington, which should have been accepted by many; but though all wanted an exhibit of hares held, only a few were willing to help stand the extra expense, and give their active support. But the poultry and pigeon breeders opened their association to the few, and pledged themselves to hold a Belgian hare exhibit in conjunction with the poultry and pigeon show, thereby assuming extra expense from which they were not sure of receiving any benefits. Now that the show is an assured fact, the balance of the breeders have promised to support it by making liberal entries. But under the circumstances few other bodies of poultry breeders would have considered the exhibit of hares.

Out of town breeders of Belgians should not neglect this opportunity, now it is extended them, of exhibiting their stock in a city where more business and advertising will result than any place in the country. Washington has a resident population of nearly 300,000, and a visiting population of several thousand more. It is surrounded by suburbs that contribute at least three thousand men in business in Washington; all of these will be more or less interested. Being the National Capital, where the eyes of the country are always turned, a winner here would have more precedence than a winner in any other show of twice the size. The exhibit will be held November 19-23, when the city is full of visitors, and after those that leave here part of the year have returned.

The Masonic Temple Hall, where the show will be held, is well lighted and handsome, situated on one of the busiest corners of the retail business district, just opposite the Patent Office. The best class of people will attend a show in this hall.

The newest field for the Belgian hare breeder to work up is the southeast, where Belgians are comparatively un-

known. Those breeders who have a creditable display of stock at Washington, the natural example-setter for the southeast, will have most profitable businesses with the residents of that section. The Belgian hare department will be judged by a competent, official judge of the American Belgian Hare Registry Association, Inc., (headquarters at Kansas City), so that all hares shown in competition here can be registered immediately.

An effort to have a Belgian Hare Stew is on foot, which is thought will prove successful. The plan is to have the breeders of Washington and vicinity contribute their culls and as many cheap grade hares as they can to the association, who will have them cooked by a competent party, and served during one of the days of the show with bread and butter and celery. This method of introducing the hare meat to the public was first tried at Kansas City in January, '99, then in Los Angeles two months later, in both cases proving highly satisfactory.

Let the Washington Poultry, Pigeon, and Belgian Hare Association have your heartiest support this fall, then carefully note your benefits.—A BELGIAN HARE FANCIER.

The management of the poultry show to be held Jan. 23-31, 1902, in connection with the South Carolina Inter-State and West Indian Exposition, Charleston, S. C., has extended a very earnest and cordial invitation to the American Poultry Association to hold their annual meeting in connection with this exposition. If the American Poultry Association ever wish to extend their influence through the Southern States there will certainly be no more favorable opportunity than this for many years, and the hospitality and attractions of old Charleston are so well known that apart all business considerations there can be no more attractive place to visit at this time of the year. All over the South the interest in standard breeds of poultry is increasing rapidly and has, in fact, now arrived at a stage and magnitude that all breeders feel the need of better organization. Only one meeting has been held in the South by this association and that some ten years ago, and unfortunately under rather unfavorable circumstances as compared with the present opportunity. There will, of course, be very low excursion rates to the exposition from all points and from the wide-spread interest already shown in this poultry exhibit, it is expected to be able to get together in the large auditorium the greatest collection of poultrymen ever held in the South.

Editor The Feather:

Will you kindly give notice in your paper that the Keystone Association is making gigantic efforts towards having one of the largest shows ever held in America? At the present time, of the 10,800 sq. ft. of space which we set aside in the absolute centre of the building for the incubator, brooder, and supply

people in general 8,000 sq. ft. have already been taken, and if any of our friends whom we have not yet heard from may be contemplating making exhibits at Philadelphia, they should communicate with me without delay, so that I may be able to make every arrangement possible to take care of all our exhibiting friends, and for any one possessing novelties which they desire to exhibit, we have available a few display cages, 4x10 ft.

Our cash specials, even at this early date in the season, have reached the large amount of \$1,000 or over, and I hope by the time of the closing of the premium list to have the largest cash offerings ever offered by any association.

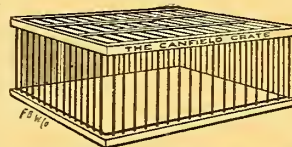
Our judges have been selected with great care. We are still one or two short, but the following have been selected to date: Chester E. Howell, H. S. Ball, J. F. Crangle, C. F. A. Smith, D. J. Lambert, T. F. McGrew, Wm. J. Stanton, A. A. Parker, Geo. H. Northup, A. C. Smith, Geo. O. Brown.

The pigeon judges are being selected by a special committee of pigeon fanciers, and I hope within the next few days to furnish you with a complete list of these judges.

The interest in our cat department is meeting with great success, and a number of specialty clubs which I will announce later, will be with us, and the Philadelphia management will leave no stone unturned to make the fanciers' sojourn in Philadelphia both a pleasant and profitable one.

Yours very truly,
JAMES CHESTON, JR.,
Secretary and Treasurer.

SHIPPING COOPS



Four styles, 23 sizes, 17 cents to \$2 each. Also a complete line of Exhibition and Show Coops, Cups, etc. Catalog free.

CANFIELD COOP CO., 19 Main St., Bath, N. Y.

BUFFINTON'S BUFFS...

Buff Ducks, Buff and Partridge Wyandottes, Buff Barred, and Partridge Plymouth Rocks, Buff Cochins, Buff Leghorns, Rose, Single, and Pea-Comb R. I. Reds, Buff, White, Black, and Partridge Cochins Bantams. Send for circular.

ROWLAND G. BUFFINTON,
Box 677, Fall River, Mass.

THIRD ANNUAL SHOW

OF THE

Keystone Poultry, Pigeon, and Pet Stock Ass'n, of Phila.,

WILL BE HELD

Dec. 28, 30, 31, 1901, & Jan. 1, 2, 1902,
In the Auditorium of the

PHIL'A COMMERCIAL MUSEUM.

90,000 sq. ft. of floor space. Entries close December 12, 1901. Write for premium list which will be ready Nov. 1, 1901, to

JAMES CHESTON, JR., Sec'y, 720 Girard Bldg.

THE BUSINESS WORLD

As Viewed from the Columns of
The Feather.

A BEAUTIFUL SPOT.

Little Eden Poultry and Fruit Farm, D. R. White, proprietor, is located one-half mile outside the city limits of Grand Rapids, Mich. It consists of ten rolling acres, watered by a never-failing stream of spring water and by a tubular well 125 feet in depth surmounted by steel windmill and 100-barrel tank, which distributes water to every point where it is required. The place is fenced completely, outside and in with the best wire fencing, being both stock, boy, and poultry proof, over 400 rods in all.

To illustrate what is possible on a place of this size, you will find the following, all, or nearly so, having arrived at bearing age: Sixty large apple-trees, 400 cherry-trees, 400 plum, 150 peach, seventy-five pear, and twenty-five quince-trees. Also 3,000 red currants and 1,000 raspberry bushes, and over 600 grape-vines. Besides this, the shrubs, flowers, and ornamental vines go far to making this place a veritable Little Eden on earth.

At present the poultry consists of 1,000 White Wyandotte hens and young stock. Also about 200 pairs of White Belgian Homing Pigeons. The owner is a direct importer of the best foreign blood to be had, and is shipping birds to many points in North and South America, Mexico, Cuba, etc.

The hare department is very complete, and in it can be found hundreds of the blue-blooded aristocrats of the Belgian family, long, red, racy fellows that please, and from the best imported strains.

The motto of Little Eden is "Room for the best only."

The farm is easy of access, being but a short distance from car line. Telephone, and team will meet prospective buyers any day other than Sunday. The business is under the direct control of its owner, aided by Mr. E. R. Smith, as manager, who will be pleased to show his stock at any time, and give such information as careful study and experience have gained.

STANDARD REMEDIES.

The old reliable house of Wm. Rust & Sons, New Brunswick, N. J., are advertising their poultry specialties in this issue. These people make various standard remedies which have been extensively sold for years, locally. They are now giving their merits wider publicity, and we bespeak for them a large share of our readers' patronage. The present ad. calls attention to Rust's Egg Producer. Write to-day for their circulars, and send a trial order.

ZINCURE PAINT.

On another page of this issue of our paper will be found the advertisement of the United States Paint Company, of New York. As will be observed from the reading of the advertisement, these people are the manufacturers of the Zincure Paint. It is recommended and guaranteed by the manufacturers as being at once a superior paint and wood preservative and a most effective insecticide. Experiment and experience prove both these claims. Zincure Paint

is guaranteed to last five times as long as linseed oil paints and to be very much cheaper. It is unequalled for use in poultry-houses and is of equal merit for use on and in all other out-buildings. Note carefully the easy and liberal terms of trial and shipment and the guarantee. Write them for circulars, prices, etc.

STARTED THE BALL ROLLING.

Mr. James H. Woodward, Dunstable, Mass., writes us as follows:

"Woodward's Barred Rocks have started the ball rolling for the season, having won three first and one second prize, also one special on four entries, at the great Nashua Fair just passed (Sept. 2-5). First pen, first pair fowls, and first and second pair chicks. This, I think, is a good commencement and proves that my matings this year are no failure."

A SURE CURE.

Conkey's Roup Cure, manufactured by G. E. Conkey & Co., Cleveland, Ohio, has been tried so universally and endorsed by so many prominent poultrymen that there can be no doubt that it is one of the best cures now on the market. The following testimonials were unsolicited: Des Plaines, Ill.

G. E. CONKEY & Co.

DEAR SIR: Please send me another small package of your Roup Cure for the enclosed 50c. It has done great work for me. I have never had anything to beat it.

R. K. GOODYEAR.
Bluffton, Ind.

G. E. CONKEY & Co.

DEAR SIR: Enclosed please find post-office order for \$1 for which kindly send me a box of Conkey's Roup Cure. We have no roup at present, but "A stitch in time saves nine." Two years ago roup nearly destroyed my flock. I tried everything and it seemed as though they died faster. I sent for a box of your Roup Cure and in three weeks the birds were all well and completely cured. I want a box of the stuff to be ready in case of any signs of roup, as I have one pen of extra fine birds.

Respectfully yours,

E. C. AWKERMANN.

TRANSFER OF STOCK.

This is to certify that I have sold all my poultry, houses, and goodwill to the Diamond Spring Poultry Farm, of Denville, N. J. This stock includes the Duke of Morris Strain Light Brahmas, bred in line twenty-one years; the Up-to-Date Strain Barred Plymouth Rocks, bred in line nine years, and Single Comb Brown Leghorns of extra large size and standard markings. It is with pleasure that I recommend the Diamond Spring Poultry Farm, and solicit for them the very liberal patronage accorded me in the past, for which I take this opportunity to thank the public.—J. M. PORTER, Morristown, N. J.

BEAGLES.

F. B. Zimmer has over a hundred better Beagles than "Debonair" ever produced, and he keeps them busy chasing Belgian Hares about his ten-acre kennel yard. It is amusing to see the small pup less in size than a grown hare chase them about and cry, "Zim, Zim."

MICA-CRYSTAL.

STANDARD POULTRY CRIT OF AMERICA.

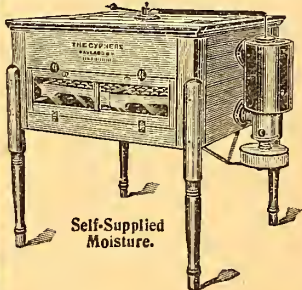
THE PERFECTION SHELL MAKER AND GOLDEN YOLK PRODUCER.

White Quartz, 58 p. ct. Aluminum, 20 p. ct. Iron, 12 p. ct. Magnesium, 10 p. ct.
DIGESTER. SHELL MAKER. YOLK MAKER. SHELL MAKER.

Ninth Year of Successful Introduction.

For Sale by EDWARD S. SCHMID, Washington, D. C.
SOUTHERN POULTRY SUPPLY CO., Washington, D. C.

The Cyphers Incubators



Are the world's standard hatching machines. They are in use in twenty Agricultural Colleges and Schools in the United States and Canada.

They are self-regulating, self-ventilating and need no added moisture.

We are shipping them to every country where poultry is grown.

For proof of their good qualities send ten cents in stamps for our 224-page book, No. 6, entitled "Profitable Poultry Keeping in All Its Branches."

A Poultry Supply Catalogue free to any address.

THE CYPHERS INCUBATOR CO.,

Chicago, Ill.,
325 Dearborn St.

Buffalo, N. Y.,
Factory and Home Office.
Cor. Court and Wilkeson Sts.

Boston, Mass.,
34 Merchants Row.

New York City,
8 Park Place.

Current Gossip.

Mr. J. B. Thomas, Jr., won all the firsts on wolf hounds at the Pan-American dog show. He seems to get the best of everything for Valley Farm.

Mr. Thomas F. Rigg, of Iowa, will attend the Pan-American during the several weeks of the stock exhibits as special reporter for western agricultural papers.

Mr. C. M. Barney, of Beaver Dam, Wis., has struck the lead in a poultry tonic. Better write for his circular, as his remedy is good for hens in molt, we are told.

The demand for art pictures is on the increase. We have been behind with our orders on them but have published a new issue to meet the demand. See notice in this issue.

Look up our club of four, hunt it out in the columns of THE FEATHER and gain the prize. Nothing like gaining all you can in this life, for feathers don't follow us hence, we are told.

Mr. Geo. M. Leffel, of Springfield, Ohio, has several hundred early chicks from which to select his fall winners. Never to have been beaten in the show-room is his war-cry, and it counts.

Dr. Andruss, of Minorca fame, has withdrawn from partnership arrangements and will grow the Black Minorcas alone under his own vine and fig-tree. The Doctor is an expert in his line.

Mr. H. S. Ball, of Shrewsbury, Mass., has begun his fall campaign of judging fairs. This same work will carry him through the whole season. The Brahmas and Cochins at Cottage Farm are better than ever.

As usual the Buff Plymouth Rock Club is to the front in their winter campaign. Great things for the good of the variety have been done by Secretary Denny and his co-workers in the art of producing high-class Buff Plymouth Rocks.

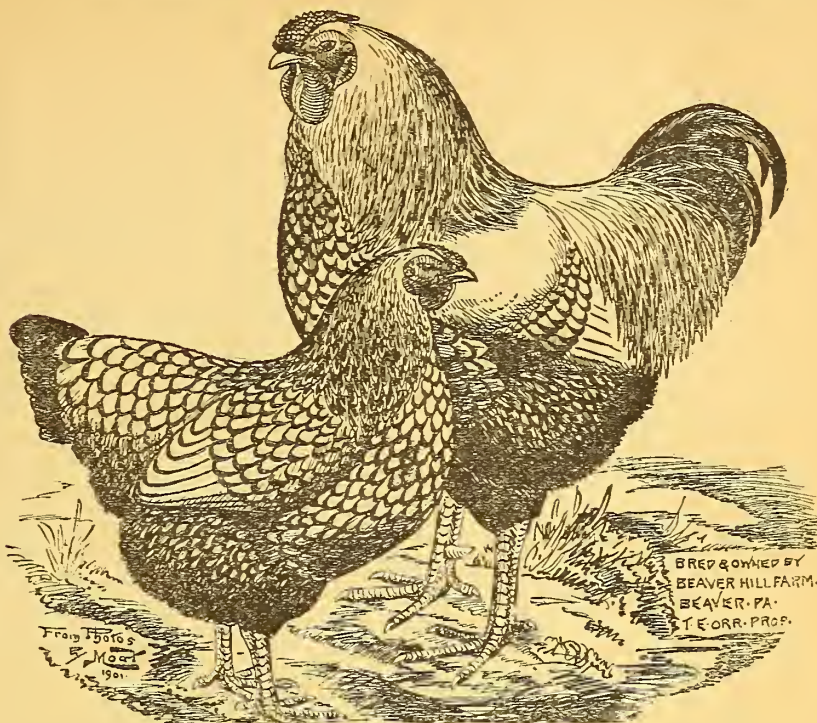
Andrew Riddell, of Cossayuna, New York, seems to have the Buff Wyandotte problem well in hand. No one produces better than he. He is up and after them all the time, and the quality of stock shown by him this fall is hard to beat.

Mack's White Wyandottes have gone to the front in the Green Mountain districts. Those early ones so successfully shown by him have set the Pan-American exhibitors thinking and wondering where the lightning will strike at Buffalo.

It is so very easy to have a Climax Leg-Band at hand to slip on to your fowls, so as not to lose their identity. Every good fowl should be banded and the number recorded, so as always to have the records that will tell of its breeding.

Mr. W. W. Kulp, of Pottstown, Pa., is unusually fortunate this fall in having so many early chicks for fall and early winter shows. All who know his line of breeding will fully appreciate the chance of gaining of his superior line-bred stock.

Mr. Peterman, of Kipple, Pa., has so arranged his yards as to make them an object-lesson for the many visitors that come for instruction on the art of poultry raising. This generous spirit on his part has gained for him his much-deserved success.



MOST NOTED PAIR OF LACED WYANDOTTES IN AMERICA.

Cock won 1st and Gold Special at Chicago, February, 1901. Hen won 1st and Gold Special at New York, same week. Their picture as above is found on Every Can of Orr's Liquid Lice Killer, now acknowledged without a superior. Manufactured by ORR & COOPER, No. 404 Fite Building, Pittsburgh, Pa.

Mrs. Wm. Beckett, of Pittsburg, Pa., has a most beautiful lot of imported and home-bred Anconas. This beautiful new variety of Mediterranean fowls has attracted considerable attention of late. They were among the largest classes at the late English shows.

Riverside Farm, at Owego, New York, has had great success with their mammoth strain of Brown Leghorns the past season. Many of the young chicks will turn the scales at four pounds at this early day, while quite a few will go nine pounds to the pair.

Mr. J. W. Alvis will join with Mr. Pierce in the labor of editing *The Fanciers' Gazette*, of Indianapolis. Mr. Alvis has been the editor of the *American Poultryman* and *Hare Breeder*. Mr. Alvis will travel, camera in hand, for the benefit of his readers.

Mr. A. S. Whitney can't be beat at his job, and anything he tackles must go. That is why he shouts so loud the possession of "the best brooder made." "Right you are," he will say as he turns them into cash, and remarks that a satisfied customer is his best friend.



THE Old Homestead Brooder

Is the only Brooder made in the world that will hover its allotted number of chicks until they are three months old. We make three sizes, 30, 50, and 100 chicks. Catalogue free.

OLD HOMESTEAD BROODER CO.,
Middleboro, Mass.

Valley Farm

SIMSBURY, CONN.

Property of JOSEPH B. THOMAS, JR.

The home of America's Finest Barred and White Plymouth Rocks, Houdans, Faverolles, Bronze Turkeys, Belgian Hares, (Borzoi) Russian Wolf Hounds. Exhibition Stock now for sale.

Address J. F. CRANGLE, Mgr., Simsbury, Conn.

Mr. J. D. Nevius has a grand lot of early Cochins, the best for years, many of them full grown and ready to lay. Mr. Nevius has charge of the poultry department of Mt. Holly, New Jersey, fair this fall, and T. F. McGrew, of New York City, will judge the poultry.

We shall soon tell of our visit to Elm Poultry Yards, at Hartford, Conn. Mr. Grossbeck is an artist in his line and has the whole business at his fingertips. No one can beat him. A few may match him but not for long, for he is always at it good and hard for success.

Mr. T. F. McGrew, of Elmwood Farm, has succeeded in producing some really good Cuckoo Cochin Bantams that are of the true Cochin Bantam size and shape and of good Barred Plymouth Rock color. Wonder if Mack will produce them by single or double mating.

B. F. Goodrich, of West Duxbury, Mass., has wonders of all kinds. His mammoth Brahmas, beautiful Plymouth Rocks, and model Wyandottes have gained for him a name that can not be overlooked. Listen to the show report of his locality, and hear of the Blue and the Red.

Good-natured Delano, of Millville, New Jersey, goes about with a smile on his face as he contemplates the surprises he has in store for the boys this winter. His constant care and good management must reap their reward. But few have shown equal ability in the handling of high-class poultry.

To prepare your fowls for the show-room use a Canfield coop for their confinement prior to shipping, so the fowls may become acquainted with proper coop manners before the judge comes around. Many prizes are lost to fowls that might have won if properly trained in coop manners.

From Mr. Ezra Cornell we have the word that he is going to the mountains for rest. Having spent the past season perfecting his incubator, he will now seek the much-needed rest, prior to the opening of the poultry display of the Pan-American, when he will come strong on his many varieties of fowls.

When we mention the name "Imperial Pekin Duck," we at once think of James Rankin, of South Easton, Mass., the father of the green duck business. Mr. Rankin raised the past season more ducks than ever, and those he has selected for future stock ducks are wonders of their kind for size and beauty.

Dr. A. W. Bell, of Toronto, Canada, can take to himself some of the honor that comes from the successful holding of so large an industrial display as the one that has just closed at Toronto, he being an active worker in management of the display. One who can grow such fine Cochins must succeed at almost anything.

B. G. Smith, of Elmira, contemplates moving his entire breeding stud of Belgian hares to the Pan-American for display during poultry and pet stock week. Should he do so the Rufus Red on his Fashoda strain will reflect most beautifully the electric display that is the talk of the country. Smith has the quality all right.

Indian Runner Ducks are called the farmers' duck. The Messrs. Dayton, at Remsenburg, L. I., N. Y., call them the all-around, best-of-all ducks. They are continuous layers of fine eggs that prove

very fertile. The young ducklings are remarkably hardy and grow fast; at all ages they are good for the table. What can do better?

Judge Northup will have a fine class of Minorcas to pass judgment upon at Philadelphia. The hustling secretary of the club assures this, and what Blanton says he carries out. "And," says he, "it will not be a one-man show, for at least three-fourths of all our members will send something so as to have a large gathering of individual exhibitors."

The past summer will long be remembered as the warmest on record. Nothing like it for years. During this continued heat the cool ocean breezes swept over Fishers Island and made life pleasant for the thousands of growing turkeys, pheasants, and fowls that have made the Island famous. More and better than ever is the rule of the Island.

It is evident that the Boston Show management would much prefer not to have conflicting dates with New York. They seem to have done all they can to obviate the occurrence that now appears almost unavoidable. It is to be hoped that such trouble will not press upon us till unbearable, for it is the press, the breeder and the fancier at heart that these clashes injure.

The *Poultry Tribune* published in its last issue an illustrated article on Squabs by W. Theo. Wittman, of Allentown, Pa., that is a credit to the writer. But few fully realize the labor that must be done in preparing such an article. The amount of practical information contained in the article is beyond what one might expect to gain from one article.

Mr. Victor Bradley, of Bradley Bros., is the prince of good fellows. He never allows any one to come into his presence without making them his friend. This same mesmeric influence goes out to his flock that can not grow a crooked bar if they would. This is the better way to pass through life—"Matters not if things go wrong if we drown it with a song."

Honest John has sung out the call to arms and the Costley Fishing Club will rally at Buffalo during the week of the poultry show. On to Hagerstown is the cry, and from there to Buffalo. We think we see the king pin, Jno. L. Cost, in his white cap as he leads the line of march at Hagerstown. There is only one of his kind on earth. May his shadow never grow less.

It is reported that Dayton, Ohio, will have two poultry shows this winter, another mistake for which no good reason can be given. No city four times the size of Dayton can successfully run off two poultry shows in one winter. It will be far better to have more of the Golden Rule and one less poultry show for the best interests of Dayton and the fancy in southern Ohio.

Orpingtons have the call in many sections. The club in their favor is doing a grand work. The selection of Mr. T. F. McGrew, of New York, to judge the Orpingtons at the Pan-American poultry display meets with general favor. Mr. C. E. Vass, of Washington, New Jersey, writes us that he has over 500 from which to select his show birds. Mr. Vass has the true quality in his Orpingtons.

The new addition to the factory of the

Star Incubator and Brooder Company is made necessary for the construction of their new brooder that excels all of its kind yet put forth by this company. They report heavy sales already for the early fall trade; in fact, they are too busy for them to even find the time to attend a fall fair. They think it far better to fill orders than to follow the fairs.

At public sale one of the Black Orpington males that belonged to the late Joseph Partington, of England, sold for \$730. We of this side would call the Orpington a non-Standard cross-breed, at the same time this single specimen of the black variety sold for more than many of us get for a whole season's product of some highly-prized Standard variety. With us a name is magic. Over there quality counts; in fact, individual merit is all in all with them and surely it is the only road to success.

Mr. Wm. V. Russ, proprietor of the Excelsior Wire and Poultry Supply Co., thinks of going over to the Dairy and Crystal Palace Show to be held in England during October and early November. If he does you may depend upon his placing his line of supplies with every good dealer on the English group of islands. Russ is no half-way worker. He may close a contract for show-coops as a side line to the introduction of his goods, as he contemplates taking up the business of superintending and managing poultry shows for all in need of experienced help.

New Jersey will have a State show at Trenton, Dec. 10-14, also one at Newark on the same dates. Boys, this is bad business. Two shows at Dayton, Ohio, two close together in New Jersey on the same dates, New York having Chicago dates last winter and Boston dates the coming winter. These clashes will prove a hardship to many who can not get to them all. Just think a little next time, and be generous one with another. Remember good fellowship is the groundwork of the fancy. The word is out that poultrymen are the princes of good fellows. So we are; let's get closer together for the benefit of all.



THE EASY BONE CUTTER

HUMPHREY

Don't buy a bone cutter until you have seen and tried a **HUMPHREY**, the simplest in construction, the easiest in operation, the only open hopper type. Every Humphrey is sold subject to return if it does not cut more bone, and in less time and with less labor, cost less for repairs and produce better food, than any other type of bone cutter.

Send for free catalogue and egg-record book.

Humphrey & Sons, Box 24 Joliet, Ill.

SALES AGENTS.

Edwin S. Schmidt, Washington, D. C.
Joseph Breck & Sons, Boston, Mass.
Johnson & Stokes, Philadelphia.
Griffith & Turner Co., Baltimore.
Sure Hatch Incub. Co., Clay Center, Neb.
E. J. Bowen, Portland, Oregon;
Seattle, Wash. and
San Francisco.

THE FEATHER,

Washington, D. C.

Published the 1st of each Month by
GEORGE E. HOWARD & CO.

Single Copies 5 cents.
Subscription 50 cents a Year in Advance.
Foreign Subscriptions, 75c a year in Advance.
Subscriptions in the District of Columbia, 75 Cents a Year in Advance.

ADVERTISING RATES.

Advertising rates per insertion 15 cents a line, agate measure, 14 lines to an inch. Discount card on application.

GEORGE E. HOWARD, Editor.

All matter intended for publication should reach us by the first of the month preceding the issue in which the same is to appear.

Write your name in full, giving full post office address plainly, so there will be no mistakes.

When writing for publication use only one side of paper. Brevity is the soul of wit.

Advertising in The Feather.

The Feather now offers the best and cheapest advertising in the country. Its circulation has increased more than one hundred per cent during the last year. Its advertising rates are lower than those of any other journal of equal standing and circulation.

The Feather reaches the people that transact the poultry and pigeon business of the country. Its publishers have made a special effort to include among its readers all the most successful and most enterprising fanciers. Advertisers are often astonished by the large amount of business which comes to them after running their card a few months. There is no other medium which reaches so large a proportion of readers in all sections of the country who are able and willing to buy when they learn who are offering the stock or supplies which they need.

No advertisement will be inserted at any price from persons who are not responsible or who fail to deal honestly with their patrons. We particularly request our readers to notify us of any advertisers whom they believe to be dishonest or fraudulent. Honest advertisers will be protected—dishonest ones will be denounced.

New advertisements must be received not later than the 15th of the month. Copy for change of advertisement must be received not later than the 5th of the month.

Remittances should be made by postal money order, registered letter, bank draft, or express money order.

All remittances should be made payable to
GEORGE E. HOWARD & CO.,
305 10th Street N. W., Washington, D. C.

SUBSCRIBERS. When a subscriber finds this item marked, he will understand that his subscription has expired, and that he should renew promptly before the next issue is published.

ADVERTISERS Must have copy in for change of advertisement not later than the 5th of the month. Copy for new ads must be received by the 15th of the month to insure insertion.

TO AGENTS. We offer the most liberal terms to agents, and our plans and arrangements are so liberal this season that there will be money in acting as a representative of THE FEATHER. We want new agents in every neighborhood in which we are not already represented. It will pay you to write us at once and get our terms. Good profits are to be made from the sale of our publications, and it will pay you well to investigate. Write us for full particulars and free outfit.

Entered at the Post Office at Washington, D. C., as second-class matter.

OCTOBER, 1901.

Color

Illustrations. With this issue of THE FEATHER we present our readers with the fourth of our series of color-plates.

As before stated, it is our purpose to illustrate in colors all the several varieties of Plymouth Rocks, and others of the American Class of poultry, so that our patrons will have the birds portrayed in their complete plumage, style, and character, which is termed "ideal," and is sought after by the expert and amateur alike. It is our purpose to translate to the best of our ability the contending question of color as outlined in the Standard.

* * *

The color-plate of Buff Plymouth Rock male on cover-page of this issue comes about as close to reality as we can produce with printers' ink and paper. Among the many thousands who will see this illustration, very few will be found who can claim to have the equal in life; thousands of others would clamor for the possession of its equal in feathers. Few are

produced. These illustrations undoubtedly stimulate many for better quality than we already have.

* * *

The Buff Plymouth Rock has gained so fast in size, form, and color, that the ideal show-bird of the past season would hardly attract the same attention at this winter's shows. Those already shown at the early fairs are forerunners of what may be expected at Hagerstown, the Pan-American, and later shows. It is our purpose to present the better quality, and the same spirit must possess the breeder who hopes to succeed.

* * *

The inclination of the masses generally is for new varieties, but above and beyond all this is a consuming admiration for buff-colored fowls. For over sixty years the contention has been as to the proper shade of buff, and is likely to go on another sixty years unless more active steps are taken than heretofore. The veteran and amateur alike are keeping the subject alive, and renew it at every opportunity for the love of talking of "the true buff color." As we sweetly chase this phantom in our idle hours of repose, we sincerely trust a conclusion will soon be reached. If, after a half century's discussion the subject is not fully agreed upon, we do not flatter ourselves with having produced a specimen on paper to agree with the varying opinions as to what the proper shade should be. Far from it. Our effort has been for one even shade of golden-buff, properly shaded and blended under the guiding laws of lights and shadows. That is all.

Department Bulletins.

For the information of our readers who may wish to know to what extent the public at large is interested in poultry bulletins, we publish the following from the Department: Bulletin No. 41, issued May 15, 1896, total number of copies issued up to date, 440,000; Bulletin No. 51, issued March 17, 1897, total number of copies issued up to date, 385,000; Bulletin No. 64, issued October 29, 1897, total number of copies issued up to date, 150,000. Three editions of the Plymouth Rock Bulletin have been issued already and the bulletin is less than two months old.

The Same Thing.

The very interesting and attractive question as to how many eggs a year a hen will lay, promises to open with many instructive arguments in the near future. THE FEATHER endeavored to show its readers a short while ago that it was not which hen laid the most eggs so much as to how many eggs a year a hen would lay. In publishing the facts in the case, you will remember we used many conclusive quotations to substantiate our statements in the premises, and having done so much in that line we do not see why the incident should not be closed. Nevertheless there are so many hens reaching the 200-egg limit that we feel almost induced to raise the mark to 250 eggs per year per hen. The egg question is expansive but more reliable than the ghost stories of *Farm-Poultry* on the subject.

The success of our book, "Money in A New Squabs," has prompted us to publish a book devoted exclusively to the Homing Pigeon.

The fifth edition of "Money in Squabs" has just been issued, and we think this is evidence

Fifty Pens of this Season's Breeding Stock For Sale.

In quantities to suit purchasers. Hundreds of cockerels and pullets after Sept. 15; farm grown, with all wants supplied to produce the finest possible stock. Special prices on trios and breeding-pens; and **REMEMBER**, my stock is line-bred since 1888 for **RESULTS**—32-page descriptive catalogue free. Winners wherever shown—New York, Boston, Chicago, Hagerstown, Cincinnati, Providence, Worcester, Hartford, New Haven, etc.

S. C. White Leghorns, S. C. Black Minorcas, Barred Rocks, White Rocks,
White Wyandottes, Light Brahma.

ELM POULTRY YARDS, Hartford, Conn.

STATE AGENT FOR THE STAR INCUBATORS.

enough of its value as a practical book on the squab question. It is undoubtedly the greatest book of its kind published. But for those who are interested in breeding Homers for flying purposes it does not go far enough into the question, and for this reason we have prepared a most valuable and concise reference book on breeding, mating, flying, and training Homing Pigeons. This new book is titled "The Homing Pigeon—Training, Breeding, Flying, and Uses of the Homer," and the first edition is now in press, and will be ready for delivery after the fifteenth of October. Those desiring a copy of the first edition should be prompt in remitting 50 cents, as all orders will be filled in rotation.

Various Things. The report comes to us that the poultry entries at the Pan-American Show are about five thousand. We had set our figures at this number of fowls, three thousand pigeons, and five or six hundred pet stock. A very short time will tell how far we have missed the mark.

We understand there were about twelve hundred entries at the New York State Fair. It looks as if the people of New York State had quit the poultry business so far as the State Fair is concerned. The great Empire State should do better than this at their State Fair.

The Orange County Fair poultry display at Middletown, New York, was quite a success this year; 1,464 specimens are reported as the count of the display. Those who know say that it was larger and better than the State Fair display of the week before. Entries were limited to Orange and adjoining counties. Light Brahmas and the American classes very strong. Quite a number of fine Dorkings shown, also Leghorns of all varieties and Minorcas, both Rose and Single Comb, in goodly numbers. Bantams of all kinds, in Game and ornamental varieties made a good bantam show by themselves. Land and water fowls, also turkeys of several varieties out in number. Weather very bad; attendance good for the weather.

As we go to press the report comes from the Sixtieth Annual Fair of Dutchess County, held at Poughkeepsie, New York, Sept. 24-27, that the poultry display was bigger and better than ever. The poultry department of this fair is the pride of Supt. Van Wyck's life, and he gains the patronage that he should have as return for good treatment. Mineola, N. Y., and Allentown, Pa., Fairs are also in progress this week.

Indications point to a great time at Hagerstown this month. Superintendent Cost informs us that his entries will hold as good as if not better than last year. This is no more than is to be expected as it is a great show center, and the awards are more than

liberal. All departments will be as well represented as heretofore, and the Belgian hare will cut a great figure in the event. Hundreds of the bob-tails will be shown. The Homing Pigeon fly will be a feature of the show, and reports from the superintendent show that hundreds of these feathered race-horses will contend for valuable prizes. These attractions and the knowledge that the same "old wheel-horse" will dispense his greetings as before, will prove magnets that are sure to attract when the time rolls around.

Dreaming Again. Mr. John H. Robinson, editor of our esteemed and highly-amusing contemporary, *Farm-Poultry*, of Boston, Mass., U. S. A., is dreaming again. He is having another one of his nightmares over the recent bulletin on Plymouth Rocks, published by the Bureau of Animal Industry. He is subject to these spells, so the public need not be alarmed, as his awakening generally comes in the form of a collapse.

A Few Compliments.

"I am well pleased with my ad in *THE FEATHER*, and am still getting letters mentioning your paper," says G. DAVIS NEAVITT, Centreville, Md.

A. S. WHITNEY, Gouverneur, N. Y., manufacturer of the \$5 Prize Brooder, in renewing his ad says, "We have had good returns from our ad in *THE FEATHER*."

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"PARALLEL-BAR" ROCKS. Eggs, \$2 per 13; \$8 per 100. Gardner, Thompson, Bradley, and Montank stock. Illustrated circular. H. T. BROWN, Box 471 B, White Plains, N. Y.

BUFF PLY. ROCKS.—Eggs, \$2 per setting, from the best pen in the South. My prize-winning hens and pullets at Washington, Hamilton, Rockville, and Laurel, mated with a grand cockerel purchased from J. D. Wilson. JOHN H. JANNEY, Brighton, Md.

EXHIBITION BARRED ROCKS. Stock direct from Thompson, Miles, and Gardner. Eggs from my prize-winners, \$2 per 13. E. B. LEEK, Amagansett, L. I., N. Y.

AT ELMIRA, Dec. 1899, and Nov. 1900, on Barred Rocks we won 8 firsts, 7 seconds, and 5 thirds. Choice breeding stock at \$2 up. Eggs, \$2 per setting. KRAFT BROS., Box 536, Hornellsville, N. Y.

NOYES' BUFF ROCKS win wherever shown. No more eggs. Stock for sale at bargains. Address, P. W. NOYES, Quaker Hill, Conn.

BARRED P. ROCKS.—A choice lot of one-year-old hens, \$1 to \$2 each. Plenty of young stock of gilt edge quality now growing on free range for sale after September 1st. CRYSTAL FARM, Wm. H. Cyphers, Washington, N. J.

FOR SALE.—My entire stock of White Plymouth Rocks, including first-prize cock, second breeding-pen, third cockerel, Ohio State Poultry Show, 1901. I. F. SCHOTT, New Pittsburgh, Ohio.

ABSOLUTELY Pure Barred Plymouth Rocks only. Eggs from best matings, \$1 per 15. Satisfaction guaranteed. W. O. PETERS, Avenel, Montgomery Co., Md.

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BARRED ROCKS (Hawkins, Thompson). White Rocks (Hawkins). Choice breeding cockerels a specialty. Also Chester White Pigs and Collie Puppies. LYON & SONS, Spring Hill, Pa.

BUFF PLYMOUTH ROCKS that are buff to the skin. Cockerels, \$3 and up; pullets, \$2. Write your wants. ARTHUR H. BOLTON, Ashuelot, N. H.

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50C. per doz.; \$3.50 per 100.—Wyckoff strain. White Leghorn eggs. New illustrated photo circular free. New plans, new methods. BISHOP'S POULTRY FARM, Box 38, Cheshire, Conn.

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S. C. BUFF AND WHITE LEGHORNS. Some very fine cockerels for sale \$1 to \$5 each. Eggs in season, \$1 per 13; \$2 per 30. PINE GROVE POULTRY YARDS, Jay, Essex Co., N. Y.

400 ROSE AND SINGLE COMB WHITE Leghorns for sale at extra low prices. Winners wherever shown. Scoring from 90 to 96½. No culls or mongrels. Prices are \$1 each or in lots of 10 or more 75c. each. A. C. NESTER, Pottstown, Pa.

NOT THE CHEAP KIND. Single Comb White Leghorns. April cockerels \$1 each. No culls. Lack of room reason for low price. L. M. WADE, Worcester, N. Y.

S. C. BROWN LEGHORNS for sale. Can win in good company. Early hatched, well striped in saddle and hackle. WM. QUIGLEY, 3618 Market St., Philadelphia, Pa.

MY SPECIALTIES are Single Comb White Leghorns and Buff Plymouth Rocks. Cockerels now ready. Good stock and reasonable prices is my motto. Write. T. D. SCHOFIELD, Woodstock, N. H.

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SINGLE COMB BROWN LEGHORNS. Winning 1900: Hagerstown, Rockville, Laurel, Md.; Hamilton, Va. 7 firsts, 7 seconds, 7 thirds, 4 fourths. Grand Leghorn Silver Cup at Hamilton for best display. Eggs, \$2 per 15; \$3 per 45. Stock for sale. BERWYN POULTRY ASSOCIATION, J. Fred. Keefe, Sec'y, Berwyn, Md.

E. N. MORRIS, Fawn Grove, Pa., S. C. Brown Leghorn specialist, has 30 pullets, 25 cockerels for sale. \$3 to \$10 each.

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EGGS If you want "Thompson's" Barred Rocks, "Mattison's" Buff Wyandottes, "Hawkins'" Silver Wyandottes, Buff Leghorns that are buff, write for our Poultry Booklet. Eggs, \$2 per 15; \$3.50 per 30. Pekin Ducks, "Rankin's," 10 eggs for \$1.25. J. T. DEW & SON, Summerfield, O.

IF YOU WANT SCRUBS, don't write me. I breed and sell thoroughbred Silver Laced Wyandottes only. Eggs from high scoring winners. Surplus stock all gone for this season. J. M. HAMBLIN, Highlawn Farm, Vienna, Fairfax Co., Va.

BUFF WYANDOTTES EXCLUSIVELY since 1894. Some fine young stock that are Buff, and the proper shade, for sale at reasonable prices. American Buff Wyandotte Club Member. W. P. PRATT, Chatham, N. Y.

CHALK-WHITE COCKERELS from the best White Wyandotte stock in America head our best pens of breeding stock. Fertile eggs that will hatch strong, vigorous chickens, \$2 per 13; \$5 per 50. Incubator eggs, \$4 per 100, well packed for safe shipping. Cockerels, pairs, trios, and pens for sale at reasonable prices. Send for our large catalogue. C. A. STEVENS & CO., Wilkeson, N. Y.

WHITE WYANDOTTES—A choice lot of one-year-old hens, \$1 to \$2 each. They are vigorous and up to date. Plenty of young stock of gilt edge quality, now growing on free range, for sale after September 1. CRYSTAL FARM, Wm. H. Cyphers, Washington, N. J.

SILVER and WHITE WYANDOTTE breeders in pairs, trios, or pens, way below value, to make room. Young in Sept., \$1 up. Stamp appreciated. EXTRA—I will give a year's subscription to The Feather on all orders containing male, for each \$5 dollars worth ordered. MRS. DENTON COLE, Winwood, Wayne Co., Pa.

WHITE WYANDOTTES and Light Brahma Bantams. The very choicest and healthiest birds only bred from. When in want drop me a line. Also Orr's Clear Grit, Crushed Oyster Shells and Reliable Incubators. Prices marked down for a while. Write, D. LINCOLN ORR, Orr's Mills, N. Y.

BUFF WYANDOTTE BARGAINS.—5 grand cock birds and 25 hens. Many winners in them. April chicks, \$12 per dozen; May chicks, \$8 per dozen, as long as they last. JAS. M. GILBERT, Box 413, Bethel, Conn.

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BLACK MINORCAS (Northup). My breeders for sale to make room for youngsters. Cocks, cockerels, hens, and pullets. Grand birds. Write your wants. E. D. CROUCH, 543 14th St. S. E., Washington, D. C.

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WHITE MINORCAS BRED FOR PRACTICAL and exhibition purposes. My Minorcas are unsurpassed for their large size, grand shape, superb color, fine comb, and superior laying qualities. First-class birds for sale reasonable. Eggs from selected matings of exhibition birds, \$1.50 per 13; \$2.50 per 26. All birds sold on approval. L. H. MORSE, Newark, New York.

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SILVER SEBRIGHT BANTAMS, winners at Philadelphia, Boston, and New York, on 24 entries, 24 ribbons and 3 specials, including 2 silver cups. Stock for sale. Sell no eggs. A. C. TREICHLER, M. D., Elizabethtown, Pa.

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BLACK BANTAMS.—3 hens and 1 cock, \$5. 5 cockerels, \$1 each. Silver Sebrights, 2 hens, and 1 cock, write for price. Extra good stock. HARRY W. MILLER, Box 27, Deerfield, Ills.

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TO INTRODUCE STOCK, will give bargains in trios. Young chicks bred from pure Pit Games. Several breeds. Write for prices and particulars. CLARENCE BIRELY, Ladiesburg, Md.

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CARPENTER'S CORNISH INDIAN GAMES. Useful and beautiful. A fowl worth raising. Always winners, never beaten. Black Orpingtons and Colored Muscovy Ducks that win wherever shown. Stock and eggs for sale. Send for circular. H. M. CARPENTER, Box 20, Sing Sing, N. Y.

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THREE HUNDRED breeding birds for sale from \$2 to \$10 each; R. I. Reds, Houdans, Lt. Brahmas, Buff P. and Golden S. Bantams. Some good bargains for early buyers. We want more room for our young stock. Also some fine Belgian Hares and Homing Pigeons for sale cheap. Send for circular and prices. DANIEL P. SHOVE, Box 666, Fall River, Mass.

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S. F. GULLIFORD, Akron, Ohio, 30 years a fancier of Polish. My specialties, White Crested Black, Bearded Silver, Bearded Golden, Bearded Buff Laced, and Bearded White. I breed these beautiful fowls to the highest standard of perfection. If interested in Polish write me.

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BLACK LANGSHANS and White Plymouth Rocks. Only record laying breeders. Hardy stock that will be sure to please, for sale. Eggs, \$1.50 for 15. FRANK I. AHERN, Box 51 Laurel, Md.

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G. GERY'S BUFF ORPINGTONS. Bred from best English bloods. All pens headed by N. Y. winners. Pullets and hens \$1 up. Cockers and cock, \$2 up. Eggs, \$2.50 per setting. Satisfaction guaranteed. W. A. GERY, Sinking Spring, Berks Co., Pa.

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BUFF ORPINGTONS, hens, \$2 each. February, March, and April-hatched pullets and cockers, \$1.50 to \$2 each. If you want fine stock write to me. J. W. TEDRICK, Williamson, Pa.

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BELGIAN HARES of the right kind. Imported and domestic. Old and young stock. Reliable Headquarters. Stamp for prices. Booklet of breeding and management, 10 cents. G. T. KENNEDY, Hackensack, N. J.

BELGIAN HARES—Good stock 3 and 5 months, in pairs or single \$2.50 a pair. Also Homing Pigeons. GEO. HYATT, Scarsdale, N. Y.

BLACK BELGIAN HARES.—Pedigreed, long and racy shape. They are the hardest and healthiest and most now in demand of all Hares. I breed them exclusively and have extra-fine old and young stock for sale. L. L. LUCAS, Oil City, Pa.

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100 FANTAILS for sale. Blacks and Whites, breeders and show birds in lots to suit, imported stock, no better in America. Prices reasonable. E. A. HOLBROOK, Winchester, Mass.

FOR SALE.—Blue Wing Turbits, English Owls, Solid Red and Yellow Tumblers, White Fantails, Swallows, Pouters, Magpies. Will trade for R. C. Brown Leghorn or White Wyandotte pullets, not under 4 months old. G. HANSEN, 45 Baldwin St., New Brunswick, N. J.

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LONG MUFFLED TUMBLERS, nearly all colors, Turbits, Magpies, Fantails, and Homers, bred from my Hagerstown winners, \$1 apiece and up. GEO. SCHRADE, Sykesville, Md.

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LARGEST AND BEST STILL. We have again added to our lofts of pure-bred White Homers, the best Belgian blood obtainable regardless of cost. Homing instinct strongly developed. Records up to 750 miles. Very prolific breeders. Youngsters and exhibition birds at prices that make sales. Write your wants. No postals. LITTLE EDEN LOFTS, R. R. No. 4, Grand Rapids, Mich.

HOMING PIGEONS.—I have a number of fine cocks in Blue and Black Chequer and several pairs of mated birds (excellent breeders) that I will dispose of at reasonable prices. The above birds are pure-blooded Homers, and bred from reliable stock. Also a limited number of youngsters bred from the same strain. G. R. BAYLE, 1643 Race St., Philadelphia, Pa.

SQUAB BREEDERS. Owing to failing health I am obliged to sell all my Homers valued at \$2.50 per pair at 75c. per pair. Runts, mostly white, valued at \$6 per pair, at \$1.25 per pair. Dragons, all white, valued at \$6 per pair, at \$1.25 per pair. No less than three pairs sold at one order. E. F. BARRY, Machias, Maine.

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COUNTY LINE POULTRY FARM breeds prize-winning Buff, Barred, and White Rocks, Light Brahmas, Buff and Brown Leghorns, Buff Cochins Bantams, Rouen Ducks, Toulouse Geese, and Mammoth Bronze Turkeys. Winners at Washington, Rochester, Hamburg, Fredonia, and Elmira are in my this-year's breeding-yards. New catalogue for stamp. Yards situated 40 miles west of Rochester, N. Y. on R. W. & O. R. R. Address, A. G. BARLOW, Box 51, Millers, N. Y. Please mention The Feather.

OLD HOMESTEAD BROODERS. "Best on Earth." Indoor, outdoor, top heat, fire-proof. Will raise every chick. Illustrated catalogue free. OLD HOMESTEAD BROODER CO., Middleboro, Mass.

COCKER SPANIEL puppies for sale out of my black dog Nubbins—A. K. C. S. B., 55892. Also have a few Partridge Cochins cockerels for sale. Eggs in season. Write for prices. E. A. MULLEN, Marysville, O.

BEAN makes a specialty of all kinds of Buff fowls. 500 premiums won under Butterfield, Felch, Pierce, and Holden. Poultry supplies at cut prices. Yours for Buffs. Write, W. M. BEAN, Anoka, Minn.

18 VARIETIES OF POULTRY. Partridge Cochins, Silver Laced Wyandottes, Barred Plymouth Rocks, White Leghorns, Buff Leghorns, Brown Leghorns, Silver Spangled Hamburgs, Golden Hamburgs, Light Brahmas. Stock and eggs for sale. Fancy pigeons. A. C. EPPLEY, 123 North George St., York, Pa.

FOR SALE.—Fine young stock from Plymouth Rocks, Brahmas, Leghorns, Bl. Minorcas, and Buff Cochins Bantams; also Bronze Turkeys, fine as silk. Write your wants. EDW. OYSTER, Washingtonville, Pa.

IF YOU WANT fine exhibition or breeding birds, 47 varieties of the best poultry, write for illustrated catalogue. G. G. SHOMAKER & CO., Box 34, York, Pa.

FRENCH HOUDANS, Buff P. Rocks, Buff Cochins Bantams. Eggs, \$1 for 15. Fowls for sale. J. A. LANNING, Cuba, N. Y.

EXCHANGE AND MART one year for 25 cents, including a 30-word advertisement in its columns for three months as a premium absolutely free. EXCHANGE AND MART, Manassas, Va.

WANTED.—Consignments of live poultry. Your surplus stock disposed of at good prices without interfering with your custom trade. Prompt, satisfactory returns; references, market reports, &c., furnished. GIBBS & BRO., Commission Merchants and Wholesale Poultry Dealers, 308 N. Front St., Philadelphia, Pa.

LARGE STOCK OF FERRETS for sale, trained, large, medium, and small breeds furnished, not akin; will drive rabbits, kill rats, etc. Finest stock in the land. HILEMAN BROS., Sullivan, O.

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BARRED AND WHITE ROCKS, Light Brahmas, White Wyandottes. Prolific laying strains. Choice breeding stock, \$1 to \$1.50 each. E. R. I. FREELAND, Box 4, Barrackville, W. Va.

ADVERTISING GUM LABELS. All Poultrymen should use them. They will advertise your business. Samples free for 2c. stamp. F. N. BROWN, Carolina, R. I.

FINER AND CHEAPER than ever, buy early. Games, Heathwoods, Irish and Mexican Grays, Tornados, Irish Blk Reds, and Cornish Indians. Free illustrated circular. C. D. SMITH, Fort Plain, N. Y.

PHEASANTS, 10 varieties. Adult and young birds to suit you. Enclose 2c. stamp for price list. DAYTONIAN PHEASANTRY, 323 Brown St., Dayton, Ohio.

AN EXPERIENCED POULTRYMAN wishes position to plan, build, and manage a model poultry plant. A No. 1 references. Address, R. I. COLLEGE POULTRYMAN, care of The Feather.

LETTER HEADS and envelopes for poultrymen. On bond or linen paper, unruled, 250, \$1; 500, \$1.50; 1000, \$2. Sizes, 6x9; 8½x6; 7½x10. Regular ruled 6x9 same price. Envelopes, any color desired, wove or laid paper, corner card or return, same prices as for paper. No cuts furnished. Modern type, first-class work. G. BICKLEY, Orange, N. J.

500 PIGEONS WANTED. For reply enclose stamp. FRED. SUDOW, Amityville, New York. Standard poultry, \$1.25 each. Mongolian, English Pheasants, \$3 each. Fantails (all colors, Havemeyer's), \$1.45 pair.

FOR SALE.—A limited number Light Brahma and Barred Rock cockerels, \$1 each. Good stock. Good size. PEQUONNOCK POULTRY YARDS, 7 Trumbull Road, Bridgeport, Conn.

WHITE BRAZILIAN DUCKS the best for table use. 1 drake and 3 ducks for \$5. M. Bronze Turkeys, Johnston's strain, \$2 each. MRS. P. L. REITZ, Pansy, Pa.

WANTED—Employment on good poultry plant. Am young, have fair knowledge of poultry, and anxious to learn the business. Best references. F. C. HARMS, Greenville, N. Y.

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EGGS FOR HATCHING. At the two biggest shows ever held in Vermont I won 27 regular and special prizes on Barred Plymouth Rocks and White Wyandottes. WILLIAM D. FOSTER, Hillside Farm, Woodstock, Vermont.

THE STANDARD EXCHANGE JOURNAL, 16 pages, devoted entirely to exchange, 30,000 readers, results sure. 30 word ad. 25 cents. Copy 5 cents. 334 Dearborn St., Chicago, Ill.

FOR SALE OR EXCHANGE. Ten-gallon ice cream freezer run by hand or power; also packing tubs and cans; a set of silver ware all good as new; run one season; will exchange for cattle or poultry. Address H. S. WHINERT, Kump, Md.

ATTRACTIVE YARD of April-hatched Cornish Indian Games, bred from imported stock by Kinzer, the famous breeder of Indian Games. Price, \$1.25 for cockerels and \$1 for pullets. E. M. MELLOR, Rugby Yards, Sykesville, Md.

FOR EXCHANGE OR SALE—Fox Terrier bitch, Bull Terrier bitch, and Beagle Hound bitch. Fancy Poultry, Pigeons, and Belgian Hares. LUMLEY'S POULTRY YARDS, 142 Searle St., Pittston, Pa.

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\$1 EACH for extra-choice, early-hatched pullets and cockerels in Rocks, Leghorns, Wyandottes, and Minoras. G. S. Bantams \$3 to \$5 per trio. CEDAR HILL FARM, Box 390, Saugerties, N. Y.

ROSE COMB LEGHORN COCKERELS for sale. Will win at the leading shows. W. C. VALENTINE, 524 Fulton St., Jamaica, N. Y.

FOR SALE—Partridge, Buff, and White Cochins, Bantams, Light Brahma Bantams, Silver Pheasants, White Wonders, White P. Rocks, and White Rose Comb Leghorns. Birds must be as represented or money refunded. J. H. MEHRING, Littlestown, Pa.

TO CLOSE OUT.—High-class Blondinettes, Archangels, and Jacobins, ten of each, this lot \$30. One pair Golden Pheasants, cock in full plumage, \$16. DR. B. BEUST, New Albany, Ind.

WANTED.—Young man understanding proper care, management, and standard requirements of poultry, incubators, brooders, feeding chicks, and all details of a good modern plant, wants situation. Wages or working partnership. Address, ARTHUR O'CONNELL, Syracuse, N. Y. (General Delivery.)

150 MAY-HATCHED BARRED Plymouth Rock and White Wyandotte cockerels for sale cheap if taken at once. Stock fine. E. JOHNSON, Dolington, Bucks Co., Pa.

FOR SALE.—Pit Game chickens, crosses of B. B. Reds and Red Cuban Roundheads, April hatched, 90c. each. Also one B. B. Red stag, \$1.50. Address, SAM'L H. EVERETT, Stockton, N. J.

POUTERS, Fantails, Jacobins, Parlor Tumblers, Turbits, and Magpies. A large number for sale at low rates to reduce stock quickly. C. F. CAMPBELL, Sunbury, Pa.

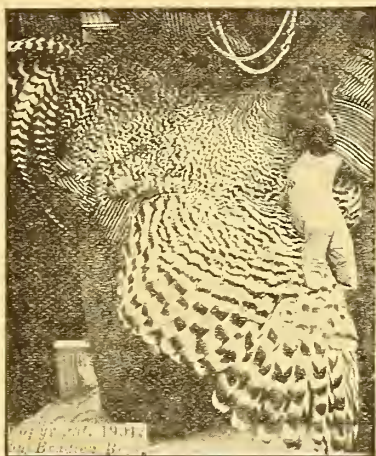
OAKGROVE POULTRY YARDS.—Barred, White, and Buff Plymouth Rocks. Young stock for sale from prize-winners. Cockerels, \$1 each; 6 for \$5. Pullets, 75 cts. each; 12 for \$8. Also a few choice Pekin Ducks and Toulouse Geese for sale. MRS. R. P. HINES, Olney, Md.

BUFF ROCKS EXCLUSIVELY that are Buff Rocks, not Rhode Island Reds. 8 years' experience breeding. 50 selected cockerels; also a limited number of pullets. A. A. GROFF, Leiderachville, Penn'a.

THE IDEAL RABBITRY. Pedigreed Red Rufus Belgian Hares from the blue blood of America and England. Headed by "True Gold," imported. Fee, \$5. "Lionel," score, 94%; "Red Rover," score, 94%; "Star Pilot," score, 94%; fees, \$2.50. Youngsters and matured stock at prices that will astonish you. Heavy-weight meat stock at way down prices. E. L. BARCLAY, Prop. E. L. BARCLAY, JR., Manager, 812 21st St. N. W., Washington, D. C.

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Richest Producing Line in Existence,



SON OF GRANDSON'S BROTHER 5TH.
Seven First Prizes at recent National Shows have been won by Sons, Brothers, and Cousins of "Grandson's Brother 5th," either singly or at head of pen. All bred and raised by us.

In First-Prize New York Males, CHAMPIONS for 12 years.

Barred Plymouth Rocks. More First Prizes at the last 12 New York Shows have been won by birds we bred and raised than any other exhibitor has won on ANY BREEDING.

Nearly Three Times as Many First Prizes on Males at these shows have been won by birds we bred and raised, than by any other exhibitor on ANY STOCK.

We Have Liberty to Publish All Facts Given in This Advertisement.

FEMALES. \$525 was recently refused by us for a "GRANDSON'S BROTHER 5th" cockerel and 4 "LEE BELLE" pullets. All our breeding.

Six Females of OUR BREEDING were winners of First Places at recent National Shows, and 15 of Our Breeding have been winners of First Places at New York Shows.

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SHOW BIRDS as heretofore, suitable for any competition. Also a grand lot of medium-priced Exhibition Birds. Hot ones for the money. Carefully mated breeding-yards of our best blood at very moderate prices. Special rates on poultry in large numbers. Large circular of "AMERICA'S BEST-ILLUSTRATED," Free.

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Don't lose them after you have gone to the trouble of hatching them.

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For Young Chicks

will save their lives and promote their growth. Recommended by leading poultrymen for chicks just out of the shell. Composed of nutritious portions of selected seeds, grains, etc., with all injurious parts eliminated. Fidelity Food for Young Chicks, used by leading fanciers and practical poultrymen, 25 lbs., \$1.25; 50 lbs., \$2.00; in bins, \$3.50 per 100 lbs. Circulars free.

PINELAND INCUBATOR AND BROODER CO.,

Box F, Jamesburg, New Jersey.

We also put up food for egg production and a good food for fattening.



L. O. BROMLEY'S, 1901, Forestville, New York, won, on ten S. C. B. Leghorns this season, at Erie, Pa., 1st cock, 2d hen, 1st pen, 1st cockerel, 1st, 2d, 3d, and 4th pullets, silver cup and special for ten highest-scoring Leghorns. At Boston, Mass., on three entries, 1st pullet, 1st hen, 3rd pen; hen in novice. Eggs, \$2 per 15. Catalogue.



S. C. Brown Leghorns, cock first, hens 2d, 3d and 4th. Cockerel 3d, pullet 5th. Won in different years. I have the finest lot of cockerels and pullet-bred cockerels I ever had. They will be large and out of the finest stock. Rose C. Browns out of my great winning strain, New York and Boston. Single and Rose C. White Leghorns out of strains that have won in largest shows, large and white. White Wyandottes of Duston strain. We have won wherever shown, and customers won in shows like Pittsburgh, and east and west. Barred Rocks (Bradley), out cockerel score 93% in show, and of the finest pullet strain also. Light Brahmas, Buff Wyandottes of finest strain.

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Pres. R. C. Brown Leghorn Club.

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My Minorcas have never lost a special for large size, and have won more prizes in strong competition at New York, Boston, Washington, and other leading shows, than any other four strains combined, which proves the quality of stock I sell.

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Trethaway's Anthracite Black Minorcas

Beat all records at New York for the last four years, winning more premiums than any two strains. Winnings at New York, 1901, 1st cock, 1st, 2d, and 3d cockerels, 1st and 4th pullets, 2d hen, and 2d pen; the \$250 club trophy 1899, 1900, and 1901; Board of Directors' cup for best five males; American Fanciers' cup for best cockerel and pullet, Poultry Monthly's special for best cock and hen, and six other specials, in competition with the best in America. A few grand cockerels for sale. Eggs from my winners. \$3 per 13; \$5 per 26. Satisfaction guaranteed.

ARTHUR TRETHAWAY, Wilkes Barre, Pa.



TO MAKE EGGS

and lots of them, the hen must be supplied the proper materials properly combined. Just here RUST'S EGG PRODUCER

comes in. It is the one perfect egg food on the market. It contains all the elements in just the right proportions. It imparts vitality so that the eggs surely hatch and produce strong, lively chicks. It makes a hen healthy and keeps her up to her work and it costs only 20 cents a year to feed her with Rust's Egg Producer. Five sizes, 25c, 50c, etc., (if mailed, 44c and 94c). Rust's other poultry preparations are of equal merit. If your dealer does not have them send us his name and receive our booklet free. Wm. Rust & Sons, Box 12, New Brunswick, N. J.

IT'S UP TO YOU!

Line-bred layers. Big reduction on eggs. Anconas, imported matings, eggs, \$3 per 15; \$5 per 30. S. C. B. Minorcas, \$1 per 15 eggs. S. C. Brown Leghorns, \$1 per 15 eggs. S. C. Buff Leghorns, \$1.25 per 15 eggs. S. C. White Leghorns, \$1 per 15 eggs. Silver Spangled Hamburgs, \$1 per 15 eggs.

J. C. BRANTHOVER.

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BUFF PLYMOUTH ROCKS A SPECIALTY.

Prize-winners at the largest shows. Stock for sale in yearling cocks and hens, early-hatched cockerels and pullets. If you are looking for A No. 1 breeders write to

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New York and Boston prize-winning blood and birds. B. Langshans, B. Minorcas, L. Brahmas, S. C. B. Leghorns, B. P. Rocks—double matings. Imperial Pekin and Indian Runner Ducks. 400 acres of grass and shade. 2,000 birds. One of the largest and best equipped establishments in existence—Low prices. Large, artistic, and descriptive catalogue free.

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At N. Y. City, 1900, 1st cock, 1st, 4th, and 5th cockerels; 1st, 2d, and 4th hens; 1st, 2d, and 3d pullets; 1st, 2d, and 3d exhibition-yards. Fine exhibition and breeding stock for sale.

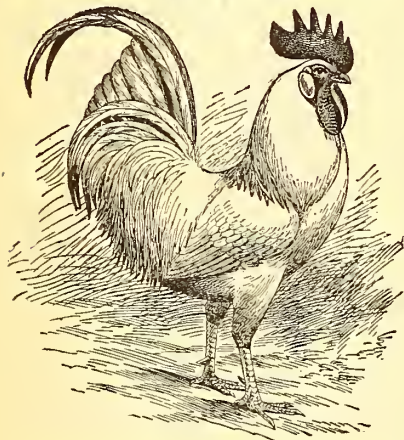
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WHITE WYANDOTTES

Buff Rocks, Light Brahmas, R. I. Reds, that are winners, are bred for fancy and utility and are just what you need. Their eggs are only \$2 per set, 3 sets \$5.

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A Happy New Year



To the birds at the Home of the S. C. W. Leghorn. At the Clinton, Mass., fall Show they won all the firsts, and at the late Fitchburg, Mass., Show, on an entry of 14 birds, they won 5 firsts, 2 seconds, 5 thirds, and 11 specials; first cock; first, second, and third cockerels; tie on first hen; first and second pullets, score 95½ and 94½; pen score, 187½. This won the special on the highest bird in the show (Bantams excluded), special on highest-scoring pen in the show, special on the highest-scoring Leghorn pullet in the show; also the highest-scoring pen in the Mediterranean class of 31 S. C. W. Leghorns, 30 S. and R. C. Brown Leghorns, and 10 Buff Leghorns, and 5 R. C. W. Leghorns and 14 Black Minorcas, won three specials on first pullet, special on the best cockerel's head, head-points to count. Grand special on the highest pen of Leghorns, any variety; 2 grand specials on the highest-scoring pen in the Mediterranean class with 90 birds in competition—the best that could be found—H. B. May, Judge. At Boston, 2d cock, 3d pen, 4th pullet.

My birds were bred from a pen of birds that I imported last spring—both male and females. Eggs for setting from this stock: 1 setting, \$2; 2 settings, \$3.50; 3 settings, \$5; incubator eggs from good, old stock, mated to some of these best young males. All boxes are made on purpose for me, and out of more than 500 settings sold last year, only 2 reported cracked. All orders for both stock and eggs promptly filled, and all inquiries cheerfully answered. Circular free.

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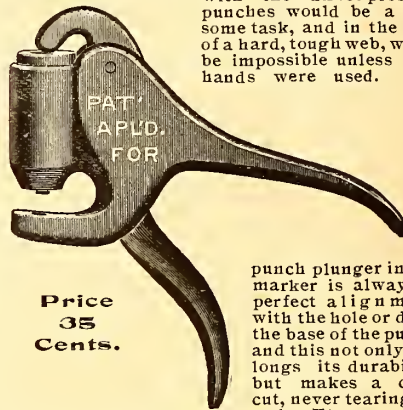
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 ROCKS: Buff and White.
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 NEW YORK AND BOSTON LAWTON'S STATION, N. Y., U. S. A.
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 Eggs for Hatching, \$2 per 13.

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We will give it
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The leverage provided in this device for marking poultry enables one to punch with perfect ease any kind or number of webs, and to do this with the direct-pressure punches would be a tiresome task, and in the case of a hard, tough web, would be impossible unless both hands were used. The

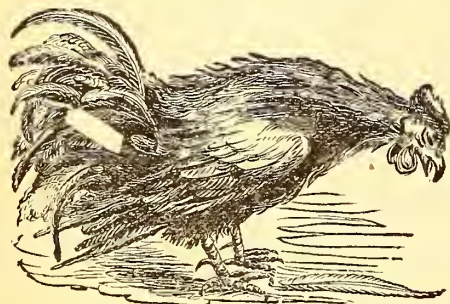


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punch plunger in this marker is always in perfect alignment with the hole or die at the base of the punch, and this not only prolongs its durability, but makes a clean cut, never tearing the web. They are well made, handsomely finished, and carefully tested.

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Cures—Prevents—

Cholera, Diarrhea and All Bowel Disorders.

The Russ Chicken Cholera Cure has demonstrated its superiority over all other remedies as a Cure and a Preventive of Cholera, Diarrhea, in fact all bowel diseases that poultry are subject to. It is endorsed by the highest and best-known poultry and pigeon judges, fanciers, and authorities in the United States. When The Russ Chicken Cholera Cure is once used, none other is ever substituted. Experience has so well established its good qualities that we do not deem it necessary to dwell upon its merits.

All we ask is a fair and impartial trial, after which we know you will be a lifelong user of **THE RUSS.**

PRICE, 25 CENTS PER BOTTLE.

On account of the postal laws, our Cholera Cure being a liquid, it can not be sent by mail.

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Conkey's Roup Cure is the only positively known remedy to cure Roup in all its forms as long as the fowl can see to drink. Simply put the cure in drinking-water, and the fowl takes its own medicine. For Canker, especially in pigeons, this cure excels all others. Our 50c. package makes 25 gallons of medicine. Directions with every package. If it fails to cure, we refund the money. Postpaid, small size, 50c.; large size, \$1.

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Pactolus, Ark.

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At Malden, Mass., Dec. 4-7, in strong competition, but strengthened my reputation for breeding a quality of Barred Plymouth Rocks which can not be excelled. I won 1st and 2d on cocks; 1st and 2d on cockerels; 1st, 2d, and 3d on pullets; 3d on hen; 1st and 2d on pens. I have some splendid specimens of Barred Beauties for breeding stock at \$4 and upwards. Eggs, \$2 per setting; \$8 per 100. Circular free. **J. W. RANDALL, Prop., Meadowview Poultry Yards, 403 Salem St., Malden, Mass.**

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Also Buff Cochins, White Japanese and Black Breasted Red Game Bantams. Toulouse Geese and Pekin Ducks. Fowls and Eggs For Sale. Thoroughbred Jersey Cattle.

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*You Lost Through Bowel Trouble Might
All Have Been Saved,*

Had you had our No. 2 STAR SPECIFIC to use, and the same is true of the old fowls, had you used the No. 1. We guarantee these remedies to cure every case of bowel trouble if the bird has strength to swallow.

If You Want Eggs, Use Star Specific Number Three.

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Are used exclusively
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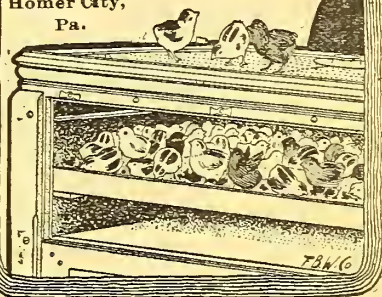
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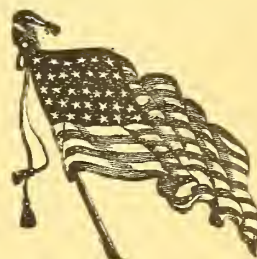
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We guarantee this to cure or refund you your money. Follow directions on box and you will never lose a bird. Prices 50c. and \$1 per box Postpaid. A 50c. package makes 25 gallons and the \$1 box makes 75 gallons of medicine. This is the cheapest and best Roup Cure in the market. Manufactured only by

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Also Bone Mills for making phosphate and fertilizer at small cost for the farmer, from 1 to 40 horsepower. Farm Feed Mills grind fine, fast and easy. Send for circulars.
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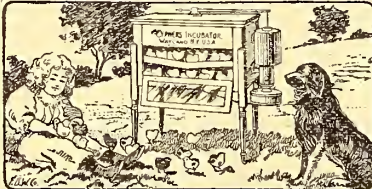
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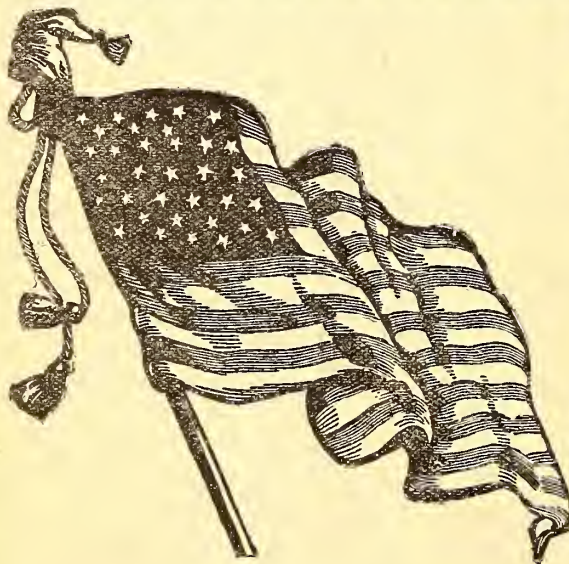
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It takes the place of insect life for hens and chicks. It contains the nutritious elements found in meat. It fills the egg-basket and makes chicks grow. It prevents constipation, scouring and leg-weakness in chicks.

B.B.B. Is guaranteed cheaper than meat, better than scraps and safer than medicine. It will make hens lay more eggs and keep them in better health than any other food or condiment. **Sample Free.**
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**Kills Lice and Mites on Fowls, and
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More chickens are killed every year by lice than with anything else. Stop this immense loss by liberally using our Lice and Vermin Killer, and then poultry keeping will be profitable. Prices, 5 ounces, 10c.; by mail, 15c. 1 pound, 25c.; by mail, 40c. 48 ounces, 50c.; 100 ounces, \$1, on board express in New York. Poultry Supplies of every description.

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Are no experiment, having been carefully selected and bred for over twenty years, with results that fully justify the claim that they are the greatest laying strain of Single Comb White Leghorns in existence. No labor or expense has been spared in building up and perfecting this strain, and while the production of large, pure-white, fancy market eggs has been the main object, standard qualities have not been neglected. They are large, vigorous, active, and handsome. Good winter layers, and keep at it all summer. Our birds are unexcelled for introducing new blood, or as foundation stock. EGGS FOR HATCHING FROM FINEST STOCK. \$2 per 15, \$3.50 per 30, \$5 per 50, \$6 per 60, \$8 per 100. Illustrated circular free.

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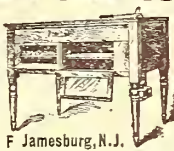
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Buff Leghorns! Silver Sebright Bantams! I have some very fine young stock which are Buff throughout. No white or black in plumage (Arnold's strain). Price for cockerels \$1.25 to \$3. Pullets \$1 to \$2 each. Eggs in season. Single Comb Buff, \$1.50 per setting; Rose Comb Buff, \$3 per setting. A few Rose Comb cockerels to spare. Silver Sebright Bantams, \$3 per pair. Bantam eggs, \$1.50 per setting. Homing Pigeons. Satisfaction guaranteed. Write if you mean business. G. W. MAURHOFF, Saxenburg, Pa.

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Breeders of Winning

Barred P. Rocks, White Wyandottes, and Light Brahmas. Our birds have won this season 64 regular and special prizes on 58 entries.

Choice stock always for sale.

Eggs in season at \$2 per setting. Incubator eggs \$3 per 100. Satisfaction guaranteed.

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Minorca Poultry-Yards.

Page's S. C. Black and White Minorcas and White Leghorns are unexcelled for large size and typical shape and are known the world over as the greatest laying strains. I positively guarantee satisfaction or your money refunded. Stock and eggs at all times. Circulars free. Mention The Feather. Address, H. D. PAGE, Ira, N. Y.

Ducks from Door-knobs.
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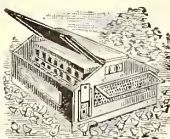
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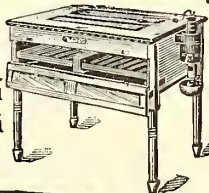
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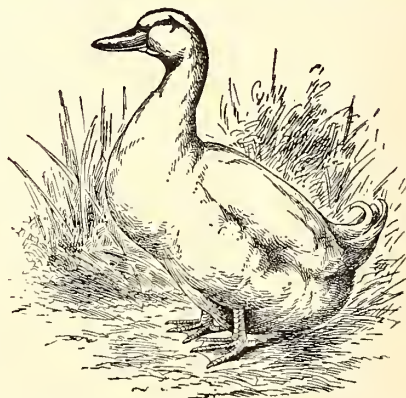
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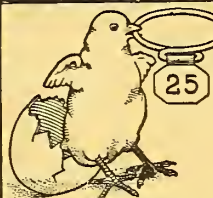
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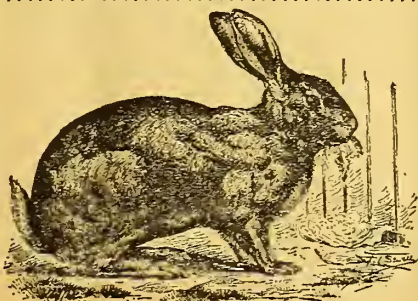
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VOL. VII. No. 2.

WASHINGTON, D. C., NOVEMBER, 1901.

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Would Be to Accomplish the Long-Dreamed-of Gold
Mine, in the Hen Business.

Toward the close of September the editor of THE FEATHER received the letter given below, which was answered at the time, and the promise given to answer more fully in the columns of the journal. Having for some little time intended to go into this subject fully, we take the opportunity offered by this letter, (which we give in detail without place, date, or name,) to give our views on an enterprise so full of possibilities and promise as to rival the grandeur of that attained by the possession of Aladdin's lamp, and as full of danger as the plagues of Egypt.

Editor The Feather:

Learning your address through your journal, allow me to ask where I can get some reliable information relating to the raising of poultry for market. I have a large tract of ground and if I can see good returns in raising market poultry I intend to equip a very large plant of the most modern principles and operated by experts. Then, in order to get some information as to the operating expenses and income, I should be pleased to have the following questions answered. Assume the plant to have a capacity of one thousand chicks per day:

1. What breed gives best results for market purposes?
2. At what weight do broilers bring best prices?
3. How long a time does it require to get the above weight?
4. About what is the average annual market price per pound?
5. Can one successfully raise and market the above broilers the entire year? If not, how long?
6. How many laying hens can be kept in pens ten feet by ten feet, including yard ten feet by twenty feet?
7. What per cent of eggs hatch in incubators?
8. About what would be the cost of feed for one thousand chicks from time of hatching until ready for market as above?
9. About the cost of feed for one thousand laying hens per year? Hoping to hear from you at an early date, I remain — W. R. S.

Assuming the plant to have a capacity of one thousand chicks per day is the prelude to nine momentous questions. Assuming the plant to have a capacity of one thousand chicks per day brings one face to face with the

number of eggs necessary to produce so many chicks, the incubator capacity, and the housing necessary for their shelter. If we accept the very high ratio of fifty per cent hatch for the average of the whole year, it will take 2,000 eggs per day to keep the plant in motion. Allowing the hens produced

sixty per cent the year around it will demand the active service of at least 3,500 hens to furnish eggs to fill the incubators for such a plant.

As the incubators would consume at least twenty-two days full time for each hatch, it would be necessary to have incubator capacity for 44,000 eggs or one hundred machines that would hold 440 eggs each. The hens to lay so many eggs should have at least eighteen acres of well-kept yards devoted to their use. To do the best, one hundred hens to the acre would be better. These hens, as the average goes, would consume \$350 worth of food per month, and should have house-space of 21,000 square feet of floor-room, or seventy houses 10x30, or 2,100 running feet that is ten feet wide. Such might be a fair calculation for such a farm.

PLANTS IN OPERATION.

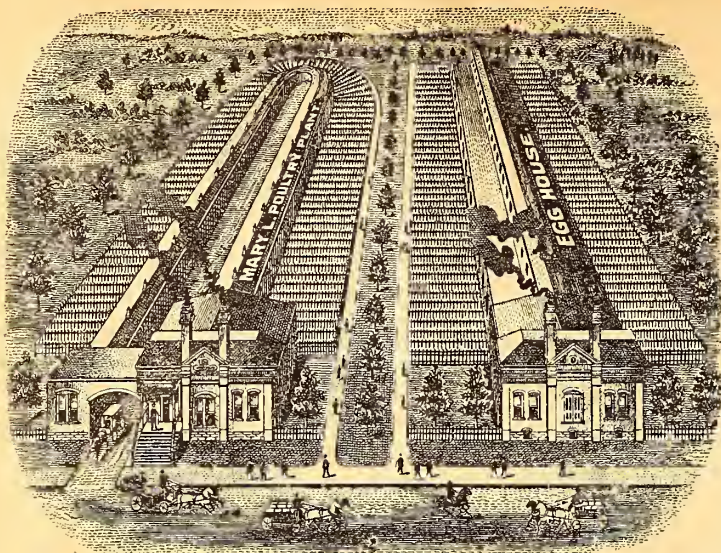
No manner of information equals an actual object-lesson in operation. For this reason we shall cite our correspondent to several plants that have been in actual operation long enough to demonstrate their ability to give at least fair returns for the labor and investment. Any or all of these can be visited by him, as they should be, prior to venturing into an enterprise he seems so unfamiliar with. No one should venture into the broiler business on an extensive plan until he or they have studied the plans of procedure of others, so he may at least have a glance into the methods applied.

At Sidney, Ohio, Mr. John Loughlin has operated a broiler-plant for several years. This plant is said to have the capacity to turn out about 250 broilers per day. It is said to have cost about \$50,000, and to have returned some \$15,000 per year profit to the owner. It is in shape fashioned after a horseshoe. The chicks are started in at one end and gradually worked along from pen to pen as they increase in size till at two months of age they are taken out at the other end.

The following cut is a fair representation of the celebrated Mary L. Poultry-Plant. These buildings are all brick, with slate roof. Thousands of dollars have been expended in their construction and equipment. The building on the left is the hatchery, or broiler-plant, is horseshoe in shape and 840 feet around it. In the basement of this building are thirty incubators, with 300 eggs in each, making



"A FULL EGG-BASKET."



THE MARY L. POULTRY-PLANT, SIDNEY, OHIO.

nine thousand eggs in a daily state of incubation. An average of 300 chicks are hatched in this department daily. From the incubator-cellar they are taken to the nursery, where there are six thousand chicks in full view, from one to thirty days old. When thirty-one days old they are lowered by an elevator to the ground in the horseshoe department of this building. It takes them sixty days, advancing a pen each day, to bring them around to the shipping-department, which is directly opposite the office and from the point from which they started on their first day's journey. This building, as shown in cut, is horseshoe in shape and contains a daily average of twenty-one thousand chicks from thirty to ninety days old.

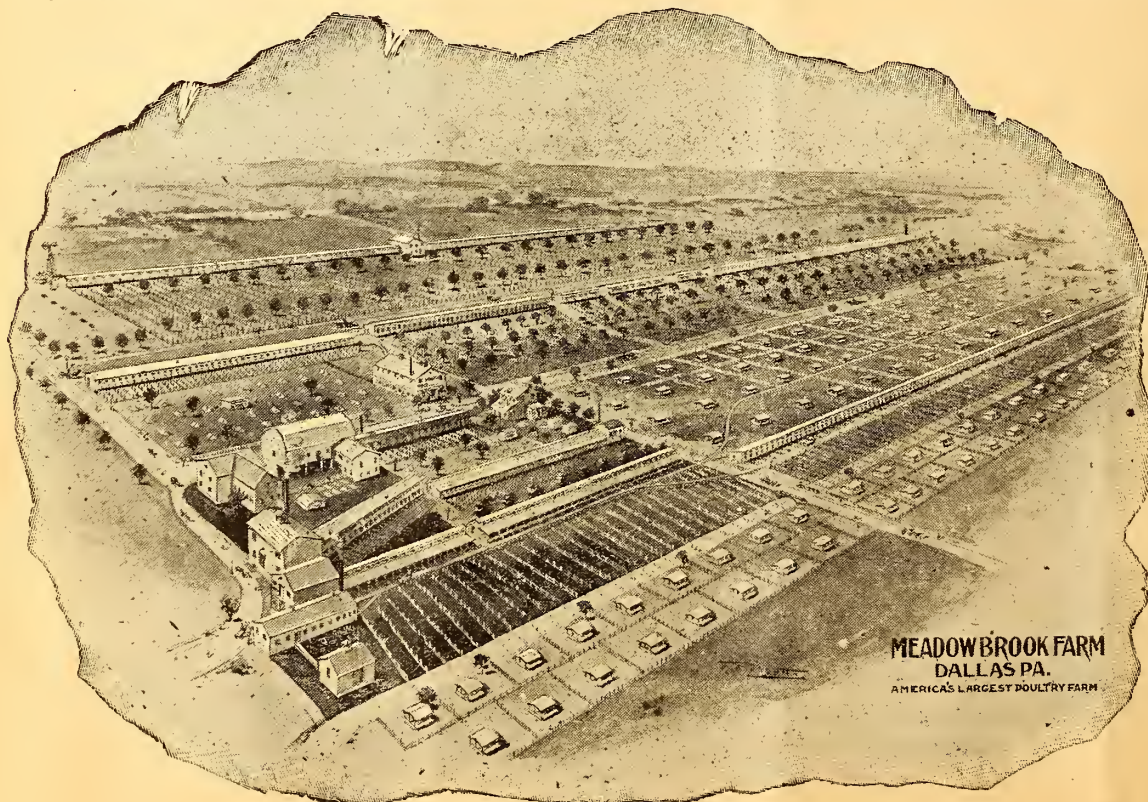
The building on the right is called the egg-house; and while it is a different type of building from the hatchery, it is constructed from the same kind of material. It is 537 feet in length, with a four-foot aisle through the center. On each side of the aisle there are thirty pens, making sixty in all. Each pen contains fifty hens, which aggregates 3,000 Leghorn fowls under one roof. From this aggregation of birds there are 200 dozens of eggs produced daily for culinary purposes. These eggs are shipped to the high-grade markets of the East, and are readily absorbed at an advance of 15 cents per dozen over the market price for ordinary eggs.

The Meadow Brook Farm, at Dallas, Penn'a, is about the most extensive

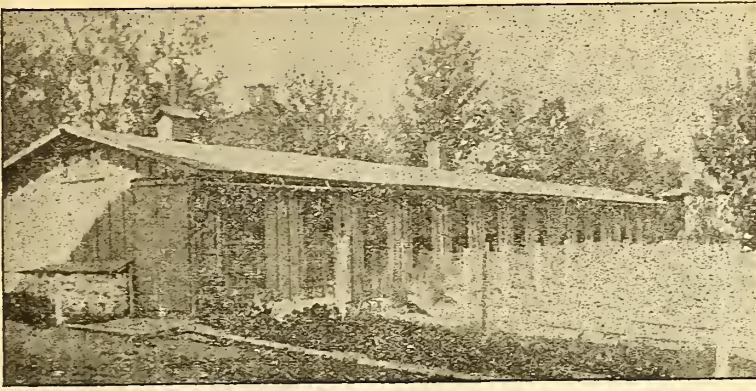
poultry-farm for its purpose in this country. This plant is equipped to care for every particle of poultry products, as are the great packing-houses to care for all manner of products handled by them. There is allotted to the poultry-farm proper eighty-two acres of land that is well covered with houses, as shown in the illustration. They have about 12,000 square feet under roof and are continually adding to this as needed. Whether this plant is a money-maker or not we can not say, but we do know of our own personal experience that they could not supply the demand on them last spring for broilers.

When so large an establishment can not grow enough broilers to fill their orders they surely have all the demand for their goods one could wish for, so it simply becomes a question of cost of production as against the selling-price, and the manner of procedure of these people would give one the notion that their thrift indicated success. Their products include McEvoy's Golden Ducks, Meadow Brook broilers, fowls, roasters, fresh-laid eggs, incubator eggs, fancy eggs for hatching, and pure-bred poultry. This is a combination that should prove profitable, for it most certainly gives leeway for the sale of everything at prices that should pay.

The Dunbar Broiler-Plant at South Dartmouth, Mass., is a novelty in construction, being built in a circle. Such construction widens out from the center, allowing for considerable yard-room at the extreme end. We hardly imagine that this plant has been as great a success as was hoped for, because of its unusual amount of attachments. Mr. Payne, who designed the plant, advanced many plans and theories as to increased per cent fertility, the handling of incubators, brooders, etc., much of which could not be put to every-day use by the average poultry-



THE MEADOW BROOK FARM, DALLAS, PENN'A.



MEADOW BROOK FARM.—End View Henhouse No. 1.

man; at the same time they did attract attention and brought others to considering the questions.

While all three of these plants are very large, we hardly think that they could, all combined, furnish as many as one thousand broilers per day. To give some notion of the total number on hand providing all were sold at not to exceed six weeks of age: Six weeks is forty-two days; to keep them going at this rate there would be continually on hand 42,000 young growing chicks, or 840 lots of fifty each. To accommodate so many would call for nearly 5,000 running feet of brooder-houses. If kept longer on hand this would demand more room; if kept for three months, it would call for double the room, either in brooder-house or shed-room for their shelter.

WHAT BREEDS GIVE BEST RESULTS FOR MARKET PURPOSES?

This, his question No. 1, covers too wide a scope to be quickly answered. "For market purposes" covers every branch from the production of eggs to fowl and roaster, but as the majority of the questions refer to broilers will conclude the question refers to what breed would be best for incubator eggs for a broiler-plant. For this purpose we should say have both the Mediterranean and American breeds. Hatch them separate and grow each kind by themselves; do not mix them in the brooder-house, because the one is more active than the other and they do better each to themselves. The Mediterranean breeds, more especially the Leghorns, grow the quickest and make nice squab broilers. The American breeds make better size and more plump appearance, but they take a longer time. For roasters should prefer the Brahmas.

BEST PRICES FOR BROILERS.

Broilers bring the highest price from January first to May first. Usually the small, half-pound squab broiler sells very well to the finest trade, but the average demand in the New York market is for a broiler that runs from thirty-six to forty ounces per pair, or an ounce or two heavier. Up to June first this season they brought very high prices. The best quality always sells well the year around.

We should like to add to the above a few remarks. White fowls are preferred for broilers for the following reasons: They usually have a rich-colored skin that adds much to the appearance of a broiler. White pigeons are also preferred for the same reason. To

show that even this may be an error we inquired among the market people as to the preference of plumage-color; the answers go to show that the preparing for market is more important than the color of the plumage or skin.

The most beautiful squabs that come to the New York market are young Blue and Black Runts from Pennsylvania. They are so nicely prepared for market one could scarcely tell the color of their plumage by looking at the squabs when ready for sale. Just so with the broilers; if properly prepared for sale the color of plumage makes but little difference, but when they are carelessly prepared the white plumage shows the least, when some small feathers are left. If the proper attention is given the preparation of the broiler for market the color of plumage is of minor importance. Good condition, plumpness, and proper preparation for market are of the greatest importance.

HOW LONG DOES IT TAKE TO GROW TO PROPER WEIGHTS?

At least one man is on record as having produced broilers that weigh four and one-half pounds per pair at eight weeks old, and thousands are on record who doubt the possibility of so doing. It is usually admitted that sixteen ounces at eight weeks is good, and twenty ounces

in that time is excellent. Such is the information as we gather it from the many who grow them for market. Broiler chicks will not grow so fast as green ducks or broiler ducklings; they can be forced by stuffing, but the chick is a regular grower that can not be pushed beyond a certain limit.

Take the average all along the line and more of them fall below the average of one pound in eight weeks than go over it. It is not fair to present isolated cases of extraordinary growth of a few well-cared-for specimens, as against several thousand, in a brooder-house; nor is it proper to hold up to view several thousands that have failed for want of proper care. The only true way is to present the actual average of those that are properly handled in large lots continually.

There is always a good market for the best quality broiler, but the farm-raised chick comes into market about June first, in direct competition with the brooder-raised chick, much to their disadvantage, because they can be produced more cheaply on farms than in brooder-houses. For this reason the season for the brooder-house broiler is from November to the end of May. The price they sell for is from 25 cents to 60 cents per pound, quality and quantity in sight ruling the market, the higher grades always being in demand at the better price. We hardly think the market will ever be overrun with the higher grades, but it is continually clogged with the poor quality, of which we have too much.

HOW MANY HENS TO A PEN?

Each laying hen should have allotted her in the henhouse no less than four square feet; six or eight is better. A house 10x10 has one hundred square feet; this is quite large enough for fifteen to twenty hens providing it is well kept. Ten by twenty is rather a small yard for twenty hens; however, if kept nicely they might get on for a time, but if continued in, ill health must follow, for of all things cleanliness must rule supreme to succeed with fowls or chicks. If to be kept year after year on the same ground the more yard-room they can have the better.



MEADOW BROOK FARM.—Brooder-House No. 3.

WHAT PER CENT OF EGGS HATCH?

The average the country over of living chicks from eggs placed in incubators is about twenty-five or thirty chicks from each one hundred eggs. At times the results obtained are better, but year in and year out they will average about thirty per cent. It is about the same with hens. Properly-made incubators will do as well as hens. The better grades will hatch about all the hatchable eggs, and do quite as well as hens.

The question of fertility of eggs has had considerable attention the past season, and thousands of theories have been advanced.* All know that the eggs prove more fertile as spring comes along, and the most non-productive months are January, February, and March. There are some good reasons for this, but no one can foretell its coming, nor can they give any plausible reason for same. If this can be improved, much will be gained by the increased per cent of hatch.

The calculation as reported by those who pay attention to the cost of food consumed by broiler chicks places the cost of same from six to ten cents per head. An average of this would be eight cents per head which we believe to be about the proper estimate of the cost of food consumed by an eight-weeks-old broiler chick. After that age they will consume more food, as they must provide for that already grown and for more size and weight to come.

When the price of grain is about normal it will cost ten cents per month to feed the average hen. Years ago, when we kept an account with our hens, it cost us from eighty cents to one dollar each to provide the food for eighty to one hundred fowls, and they had a good bill of fare. With corn, wheat, and oats at the normal it is safe to estimate ten cents per month east of Pittsburg. This cost is somewhat less west of that locality, but market poultry and eggs are correspondingly lower in price, which amounts to about the same.

PROFIT IN EGGS.

Calculating eggs at two cents each a hen must produce five dozen eggs before she has paid her keep. All she lays during the year in excess of sixty eggs should be credited to labor and profit account. Hens that will average ten dozen per year give fairly good returns for their keep, but the money is made from the flocks that average up to twelve dozen or better. Twelve eggs per month is only forty per cent production, and every hen that has even fair treatment should do better than that. To consider this at a very low estimate, if the hens average twelve eggs per month in a locality where the eggs must be sold for twelve cents per dozen, you will find the cost of all the hen eats correspondingly low, so that the cost of her keep may be reduced to seven cents per month. This leaves a margin of five cents per hen, or sixty cents per year profit from the hen on the very lowest estimate, or twenty per cent gain on a valuation of \$3 per hen.

This very low estimate would pay \$600 on one thousand hens, about as many as one man could look after, and this would give him far better returns than to do day's work at \$1.50 per day, and in addition to this he has only to look about for a better market, for each two cents per dozen he adds to the selling-price of his eggs makes his income \$100 more per year, and the man who sells all his eggs for two cents each on this same basis should have as his gross gain \$1,200 from one thousand hens. Please note we say gross gain, for we must take from this the cost of any labor, or repairs, or interest, if any to be paid. These calculations we present for the basis of calculation for those who have the land, the proper houses, and the hens to work with. We wish to emphasize the fact that all depends upon the ability to manage the hens so they will produce above the ten dozen per year limit, for under this production the chance for profit is so very small, that

it is dangerous to hope to succeed. So it is plainly to be seen that the chance for profit under any or all conditions is a question of your ability to manage your flock so they will lay eggs enough to produce the profit.

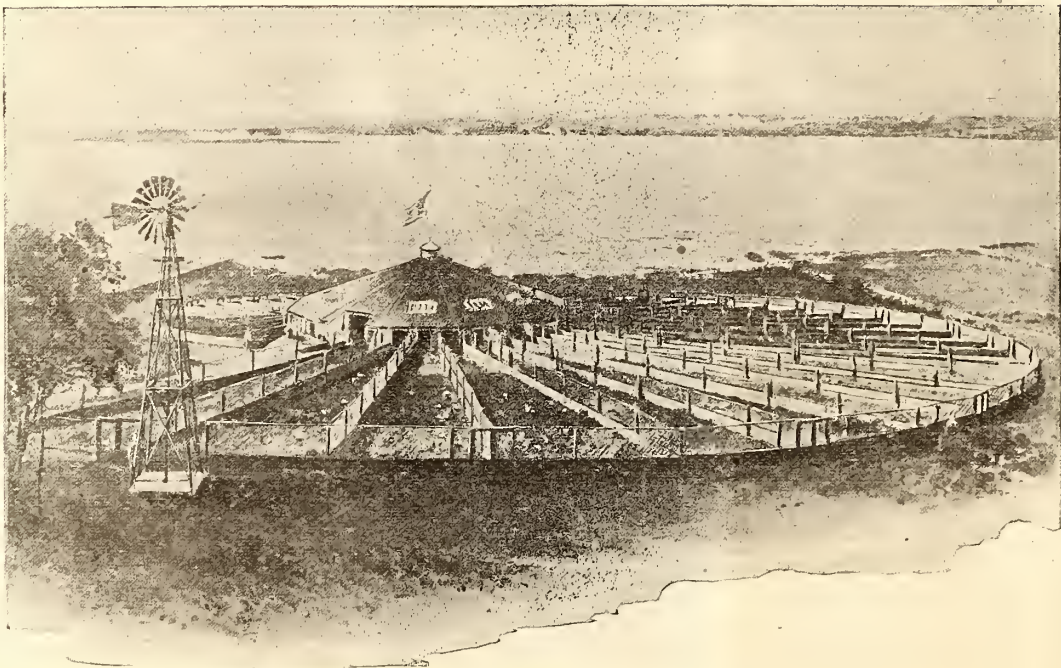
BUT FEW SUCCEEDED.

Calculated from the total number that try to keep hens for profit, but few succeed. Thousands gain so much pleasure from them that they don't consider the cost, but outside all this of those who try to keep them for profit but few succeed because they can not manage their hens so as to have an egg-yield that will pay a profit. It is a grave error to advise people to go into the egg-farm business who know nothing about the care and workings of such a plant. We know of nothing that is so sure to prove an awful failure if poorly managed as an egg-farm. It will lose money as fast as a circus in wet weather, and at its best nothing but care and economy succeeds.

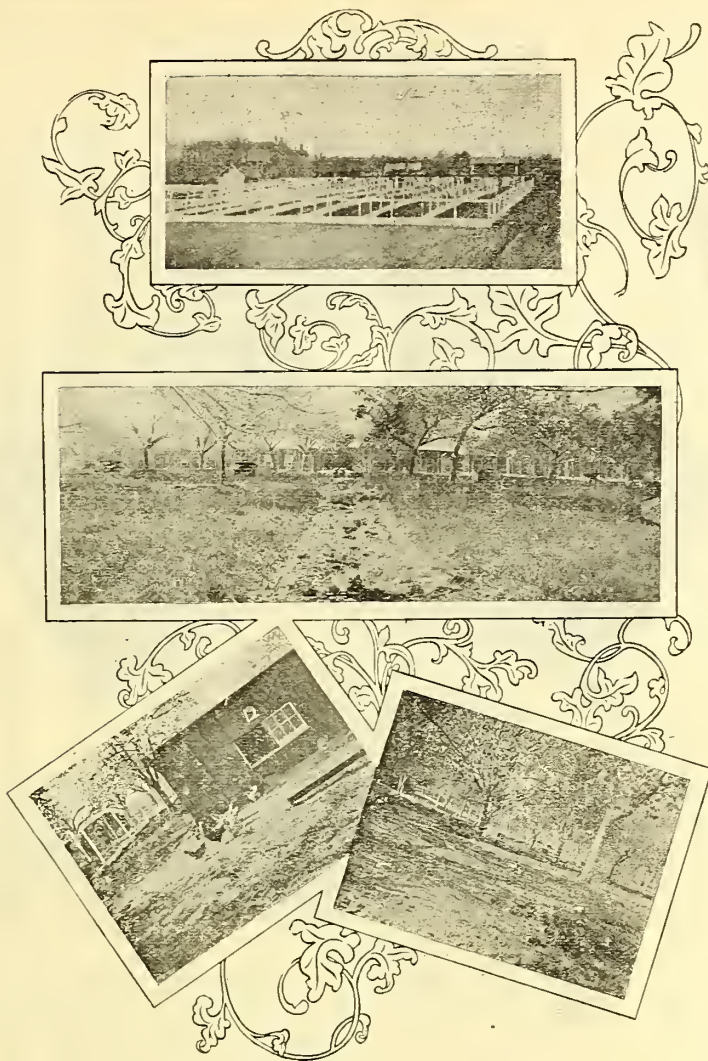
In the face of all this there are farms of this kind that do make money. On some of them the average profit per hen ranges from \$1 per hen to as much as \$2 each hen, the results of experience and good management. Others that can manage as well can do as well as they, but it is a business that can not be learned in a day, or a week, or a year. It is like any other kind of business—to succeed you must understand what you are at.

HOW BEST TO LEARN.

No method or plan equals experience with hens. Of all the ways to learn none equals the beginning with a small flock and gradually increasing the number kept from time to time as you feel assured of your ability to gain a profit from them. You are thus able to decide the kind of house, yard-room, and fowls that do the best with you. In this way the fewest mistakes are made and the least loss incurred. The plant that belongs to Mr. Nesmith, at Reading,



DUNBAR BROILER-PLANT, SOUTH DARTMOUTH.



SECTION OF PLEASANT VIEW POULTRY-FARM, HOPEWELL, N. J.

Mass., has gradually grown in this way from a few hens to a poultry-plant that pays him well. Further on we shall say more of this plant.

Following this comes experience gained in working as an assistant on some well-conducted plant that is a paying investment. One could well afford to work a full year for his keep upon such a farm and be well repaid for the trouble, if he would pay close attention to learning all that was possible for him to learn. It is too often the rule that he who wishes to gain the experience first quibbles as to wages, then if employed tries to become the instructor in place of the pupil; such never succeed in anything. Only those who keep their own council and study by observation, who ask questions and weigh carefully the answers and put all that is of advantage to the best use, succeed after this experience.

Then we have the poultry instruction at some of our agricultural colleges. This gives considerable of theory, with some actual experience, and starts the attentive ones in the right direction of learning, providing they are willing to take up the real work of the business and learn its actual workings. From following one of the above plans, no matter how or where you begin, you must gain from actual experience that part of the business which no man can

impart by word of mouth. No one has so received it, nor can it be imparted to another in that way. It must come from actual experience.

With all this it is not a difficult problem to solve; at the same time it must have care and attention to properly master and make use of it profitably. One must learn to milk a cow, drive a horse, hold a plow, churn butter, or attend to crops; all come as the result of application to the thing in hand. Those who succeed do so as the result of the experience gained and properly applied. This is the same in all walks of life, and as much so with hens as with any kind of stock.

SOME SUCCESSFUL ONES.

We shall cite for reference a few who have built up a paying business in a modest, quiet way much after the plan we recommend, of beginning with a few and working gradually into a living business. The Cravenheim Poultry Farm, South Bound Brook, for market eggs only, was started by Mr. B. P. Mills, as an outdoor business to benefit his health which had failed him. Gradually this grew into a paying plant. About 1,200 laying hens were kept the year around, and enough were raised upon the place each year to renew the stock; surplus young stock and the dis-

carded old hens were sold alive for market poultry.

This plant was carried on by Mr. Mills for several years and gave good paying returns. We have visited it several times and learned during these trips the great value of close personal attention to all details, and care and economy in the management. Pure-bred stock only was kept and new blood introduced each year into the pens from which eggs were used for hatching, so as to insure the greatest vigor and strength for egg-production. Late information is to the effect that Mr. Mills' health is so poor he has gradually reduced his plant to a few pens for the present.

Pleasant View Poultry Farm, at Hopewell, New Jersey, is to-day one of the best paying plants we know of. It is a combination plant for eggs, and to supply pullets to other egg-farms. The past season about 2,500 young stock were raised; 700 pullets selected from these will be added to the laying-pens, the balance of the pullets sold to others for producing market eggs, the surplus cockerels and discarded stock dressed and sent to market.

All the stock upon the farm is pure bred and many of the best raised each year go for exhibition stock. A close account is kept with the egg-production so as to know the profit made. But a short time since the owner told me that his laying hens had made a profit of one dollar and fifty cents per hen from eggs sold to market. These people have an advantage in disposing of their product through their own commission house in New York, having a number of customers who will pay good prices for fresh-laid eggs all the year around. If all who keep hens could fully realize just what fresh-laid eggs mean in the market they could increase the value of their output far beyond the market quotation, by sending strictly fresh-laid eggs to market.

WHAT ARE FRESH-LAID EGGS?

To be fresh-laid eggs as implied means that the eggs must reach the customer perfectly fresh in every way. To meet this requirement the eggs must not be to exceed forty-eight hours old at time of sale, if only twenty-four hours old so much the better. Not one single stale egg must be put in with a thousand fresh ones, for its presence grades the whole future product of the sender as no better than any or all so-called fresh eggs. Once the confidence of the vender and consumer is lost to a certain brand of eggs they at once lose their standing in the market and can no longer be sold as fresh-laid eggs at a big price. Those who hope to gain a few cents by sending as fresh a few that are not fresh, simply kill their own chance to ever again get the highest price in the market. It becomes a question of honor between the producer and consumer; if the one deceives the other confidence is gone and so is the high price.

The plant of C. I. Nesmith, at Reading, Mass., could be called a novelty plant, because its owner makes use of all manner of methods to gain the profits that always come to those who watch the corners and cut close to the line of thorough economy, within the limit of good judgment and away from miserly methods. His houses are equipped with electric lights that can be turned on any hour of the day or night; this might be called extravagant, but

the facts are that two men can do the work about the place during the short days of winter when most busy where it would take four to do the work if daylight must be depended upon. As each separate globe is turned on as needed the cost of same is much less than the expense of additional help.

Broilers, incubator eggs, and farm-laying stock are the principal trade of this plant. In addition to this farmers and others bring their eggs by the thousand to be run through his incubators during the dull months of hatching broilers. All this brings cash to him in return for stock and labor performed. His broilers stand A 1 in the Boston market. His fowls are the very best Barred Plymouth Rocks, and during the whole winter he is overrun with orders for incubator eggs at prices well above the market for fresh-laid eggs.

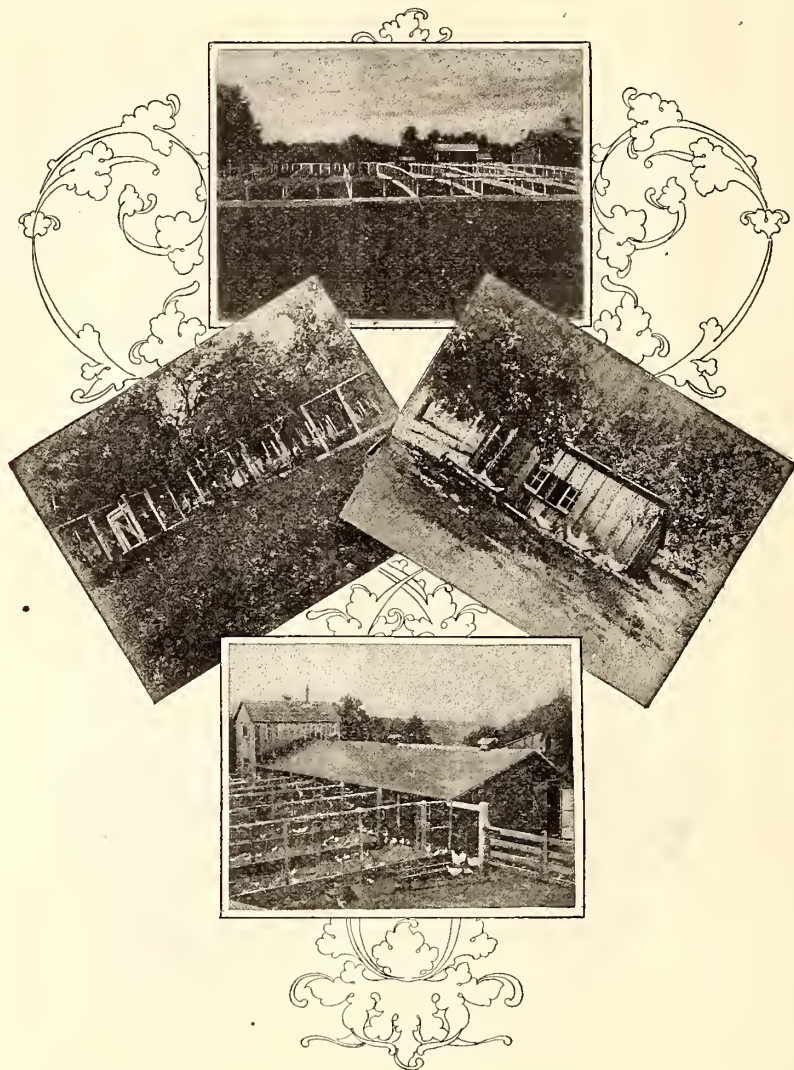
Influence of Food.

But little consideration is given to the great influence of food over the flavor of eggs. Every one who knows anything of milk and butter knows how quickly a bad-flavored weed or a wild onion-plant will injure the flavor of butter made from milk that comes from cows that have eaten the ill-flavored foods. This is the same with hens; feed them onions and the eggs will be tainted with the flavor. Catch two or three hens and give each a small piece of camphor-gum each day for a week and their eggs will be almost as strong as camphor-balls. Feed a white hen sulphate of iron during her molt and her plumage will be badly off-colored. Iron fed in the food of laying hens will darken the shell and the yellow of the egg.

White hens, or rather white fowls, hold their color better when fed on white corn. This is specially true during the molt. It is always safe to feed white oats, white corn, and white wheat to high-quality exhibition white fowls during the molt. Buckwheat, linseed, yellow grain, or iron of any kind is unfit for white fowls in molt. This is true for, say, a month prior to molt till after in full plumage, and no harm comes if observed all the time.

Buckwheat is splendid to make or help to make the hens lay. Much of it turns the yolks very dark in color. Some claim that an excess of color and poor flavor comes if too much buckwheat is fed. All this goes to prove that an excess of any one kind of food is bad. What would become of mankind if fed entirely on either cornbread or buckwheat cakes? Some of each and all will do very well, but variety is necessary to success with the hen.

Hens that get their entire living from hunting and digging in a manure-pile will lay eggs the flavor of which will be bad. If you cook the carcass and lift the pot-lid while cooking the odor is bad, and on the table such never create a wish for the second helping. Such is the influence of bad food. Hens will hunt and dig all about, but when properly fed the other influence is slight. It is like the filth dumped into the ocean, so small as compared to the whole. Water also plays considerable part in the compounding of the egg, three-fourths of which is water. If the hen must drink foul water it must influence the flavor of the eggs. The same is true of the milk from the cow. Bad-flavored food or water taints both milk and eggs, if used for the cows or



SECTION OF PLEASANT VIEW POULTRY-FARM, HOPEWELL, N. J.

the fowls. All this is well worth consideration, for it is just as easy to avoid this trouble as to have it.

A crate of eggs that is kept in the same room where coal-oil, kerosene, or naphtha is kept will all be tainted by the influence of the oil on the eggs. It will penetrate the shells which are very porous. This same influence will make butter taste bitter and spoil milk for use. A can of kerosene in a cupboard where eggs, butter, milk, and cheese are kept will taint them all. These facts prove the influence of food and that external contact of some things will flavor our foods. Give your fowls a variety of all kinds of grain and vegetable diet; clean, pure water; dry, clean quarters to live in that are reasonably warm, and none of these troubles will come to you.

When to Hatch Turkeys.

Turkeys should be hatched as soon as the eggs can be secured. Turkeys seldom begin to lay much before the approach of spring. The first eggs should be placed under chicken-hens, as they bear close confinement better than turkey-hens. It is well to be certain that the hen incubating the eggs is absolutely free from insects of any kind; in any event, she should be dusted well with insect-powder or some kind of lice-destroying powder prior to placing her

on the eggs. This treatment should be renewed every week for two weeks at least. Her whole body should be dusted full of the powder down to the skin; a dust-bath should also be provided for her to roll in when she comes from the eggs; these precautions will save the young turkeys on their arrival from their dire enemies.

The young turkey should be protected from wet and damp, as they are very susceptible to these changes. In this respect the chicken-hen makes the better mother for the early poults, as she will rest quietly in a box or coop and keep the poults warm and dry. Later broods may be hatched by turkey-hens, as there is not then so much danger of damp and they may have more liberty. Young chickens and young turkeys should never be kept together.

Mr. A. C. Hawkins writes us that his young stock far excels anything he has ever raised. We saw his matings last spring and predicted fine results from them. Nowhere have we ever seen anything of the kind to equal his Buff Plymouth Rocks for size, shape, and color; they are beautiful in the extreme, as are also his White Plymouth Rocks and White Wyandottes. Surely nothing we can say will improve the reputation of his world-famed Barred Plymouth Rocks.

POULTRY RAISING ON THE FARM.

By D. E. SALMON, D. V. M.

The barnyard fowls are regarded by most farmers as a very insignificant part of their live stock; and yet, although so often neglected and forced to shift for themselves, the poultry and egg crop constitutes in the aggregate one of the most important and valuable

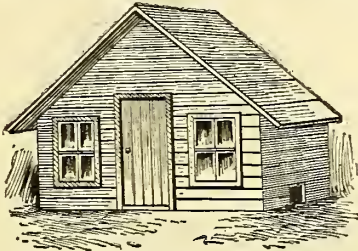


Fig. 1.

products of American agriculture. The conditions in this country are such that the poultry industry is capable of indefinite expansion, and therefore able to meet any demands that may be made upon it either by home or foreign markets.

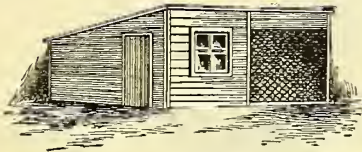


Fig. 6.

Importance of High-grade Product.—In order to secure a larger consumption of poultry products per capita in the United States, it is of prime importance that there should always be an abundant supply of strictly fresh eggs and

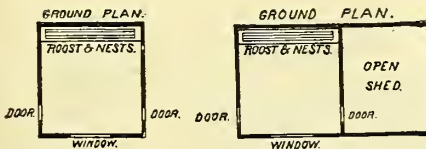


Fig. 5.

of the best grades of table poultry. This condition is also a necessary factor in the development of the export trade. When the markets are filled with eggs which have lost their quality and flavor

stead. So, also, when the exporter is buying for consignment to foreign markets he must be able to find at all times a good article of eggs or poultry in sufficient quantity or he can not continue his trade.

Possibility of Increased Consumption.—An increased supply of poultry products of the highest class would unquestionably lead to an increased consumption. There is no more staple and popular article of food, and consequently we may confidently expect the demand to

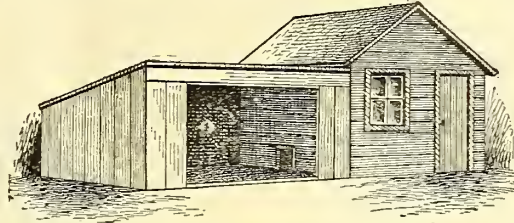


Fig. 2.

develop in proportion to the increase of our population and to the care and intelligence with which the markets are supplied.

Increase of Product.—There is no stock on the farm that yields a better relative return to the food consumed than do the hens, and consequently it is well worth while to consider in what manner their product may be increased without disproportionately increasing expenses. The fowls must have comfortable and healthful quarters, they must have proper food and nesting facilities, but it is not at all necessary that there should be

extravagant expenditures in supplying these.

THE KIND OF FOWLS TO KEEP.

The kind of chickens to be kept on a farm depends almost as much upon the kind of man who manages them as upon any other condition. There are no birds which stand neglect better than the common, mongrel barnyard fowls, for these have lived and developed under unfavorable conditions and are accustomed to shift for themselves. They are generally hardy, vigorous, and yield a fair return in eggs or as table poultry; they respond fairly well to generous treatment, and, if selected with some care, are by no means to be despised,



Fig. 4.

even when their product is compared with that of the standard breeds.

IMPROVEMENT OF BREEDS.

The improvement of the common poultry should begin in most cases by breeding from birds selected for their shape, size, and productiveness, and by bettering the conditions of life under which they are kept. If the owner is willing to go a little further and to bestow somewhat more attention upon his birds, he may cross them with males of a standard breed, or replace them entirely by pure-bred males and females.

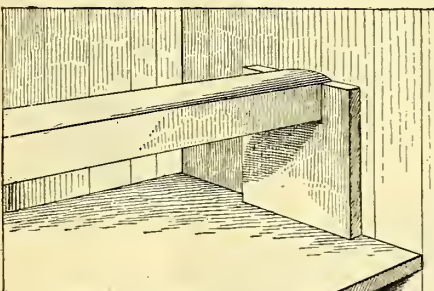


Fig. 8.

by long keeping, and many of which have acquired an offensive taste; when the broilers and roasters offered to the consumer are thin, tasteless, tough, and altogether unfit for the table—it is not surprising that they are passed by, and beef, mutton, or pork taken in their

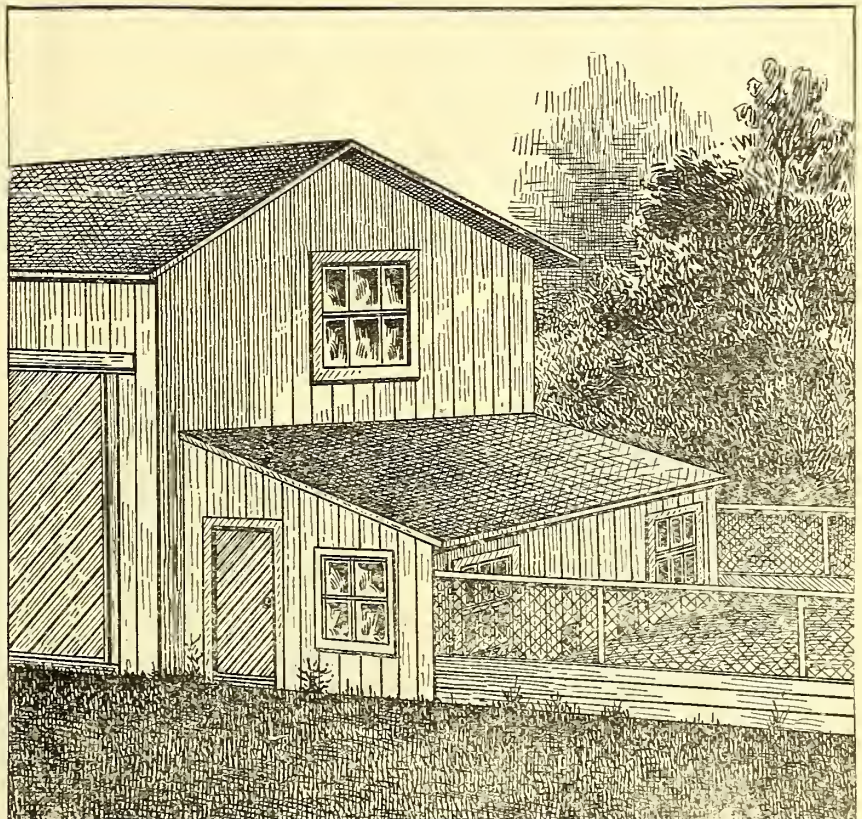


Fig. 3.

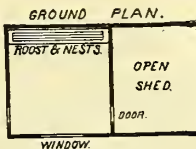


Fig. 7.

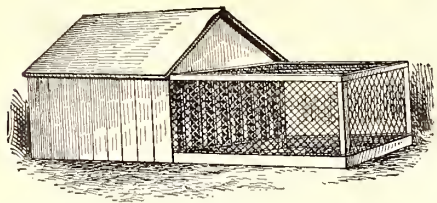


Fig. 10.

CARE OF FOWLS.

The standard breeds have been brought to a higher plane of development by extra care and more skillful management, and if they are to maintain this improvement they must be continued under the conditions which brought it about. They suffer more from neglect and unhealthy surroundings than do the common fowls, because less accustomed to these conditions. The standard breeds, for these reasons, may not always give satisfaction, if their characteristics and requirements are not un-

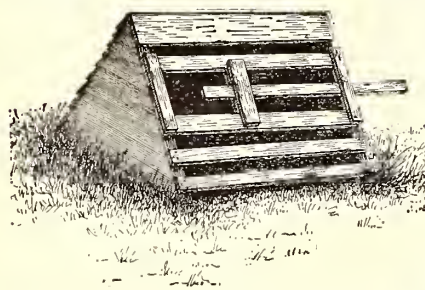


Fig. 15.

derstood. If, however, the highest returns are expected which care and skillful management can obtain, then a breed of fowls should be adopted which has been bred for generations with this object in view.

POPULAR VARIETIES.

The most popular fowls in the United States are the American breeds known as the Plymouth Rocks and Wyandottes. They are of medium size, good as broilers, good as roasters, good egg-producers; the hens are good sitters and good mothers, and for these reasons

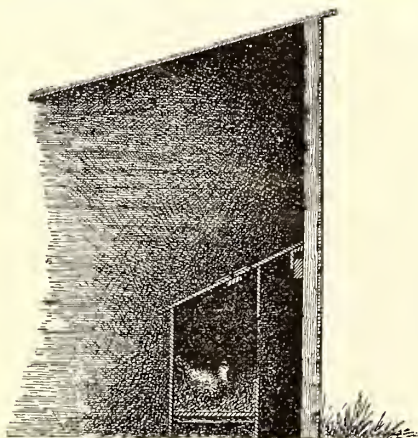


Fig. 10.

they are known as general-purpose fowls. In the Barred, Buff, and White Plymouth Rocks, and the White, Buff, Silver, Golden, Black, and Partridge Wyandottes, there is a sufficient range of color to meet almost any taste.

EGG PRODUCTION.

For farmers who desire fowls more particularly for egg production, the

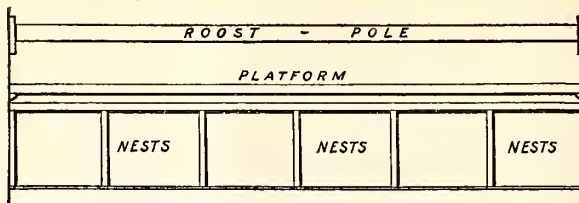


Fig. 9.

Mediterranean breeds, particularly the Leghorns, Minorcas, and Spanish, are to be recommended. The birds of these breeds are smaller, more active, and greater foragers than the Rocks or Wyandottes, and as layers they are unsurpassed. Should it be desirable, on the other hand, to raise heavier birds than the Plymouth Rocks, we should naturally turn to the Asiatic breeds, which include the Brahmas, Cochins, and Langshans.

WEIGHTS.

The standard weights of these different classes are as follows:

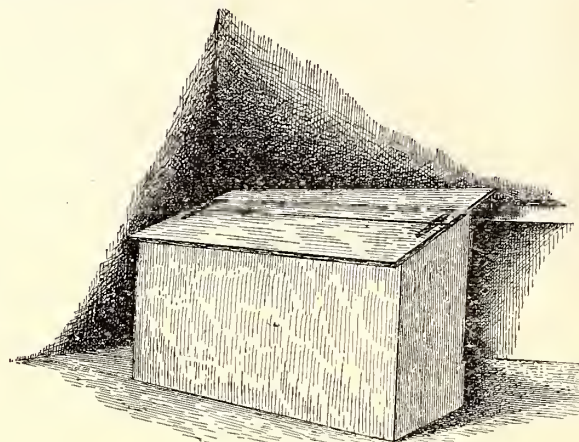


Fig. 11.

Breeds.	Cocks.	Hens.
	Pounds.	Pounds.
Plymouth Rocks.....	9½	7½
Wyandottes.....	8½	6½
Light Brahmas.....	12	9½
Dark Brahmas.....	11	8½
Cochins.....	10½ to 11	8½
Langshans.....	10	7
Minorcas.....	8	6½
Spanish.....	8	6½

ments of any farm. In purchasing breeding stock it is important to purchase from reliable breeders only, and to ascertain that the stock is in healthy condition and that it has been bred for early maturity, size, shape, and egg-producing qualities rather than for perfection of feathering. For the show-room the feathering can not be neglected, as the judges often place it ahead of all other features of the bird's make-up; but for the farm the color and

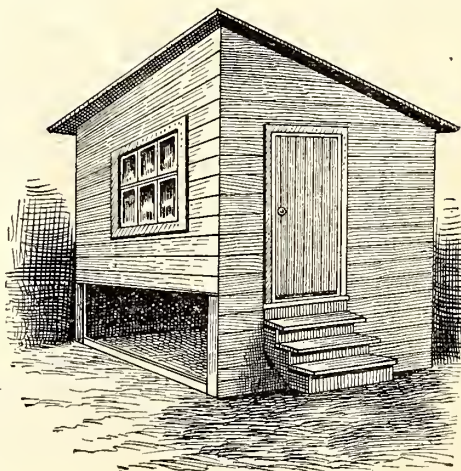


Fig. 12.

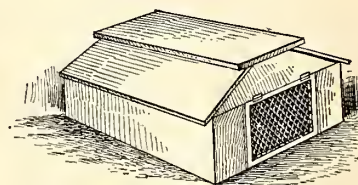


Fig. 16.

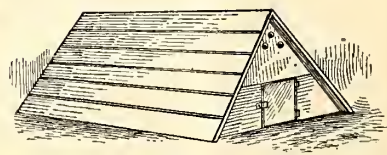


Fig. 17.

marking of feathers must be held subordinate to the utilitarian qualities. The feathers should not, however, be entirely neglected, as their perfection is an indication of the purity of blood and carefulness of breeding.

POULTRY-HOUSES.

It is very desirable that poultry should be provided with a house somewhat separated from the other farm buildings, but near enough to the barnyard so that they can spend a part of their time in scratching for and gathering up the many seeds and grains which otherwise would not be utilized. On farms where no poultry-house is provided the hens are compelled to seek roosting-places wherever they can find them—sometimes in fruit-trees,

times. A few inches of sand or gravel on the surface will be very useful in preventing the formation of mud. If the house is sheltered from the north and northwest winds by a group of evergreens, this will be a decided advantage in the colder parts of the country.

UNUSED BUILDINGS.

Sometimes there is already a small building on the farm which has been

One of the simplest forms of poultry-house is shown in fig. 4, and ground plan of the same in fig. 5. A scratching-shed may be attached to the side of this house, as in figs. 6 and 7, which, if desired, may be inclosed in front with poultry wire, so as to keep the birds confined.

FITTINGS.

Roosts.—The details of construction

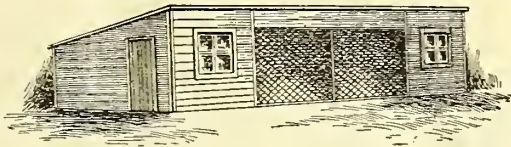


Fig. 13.

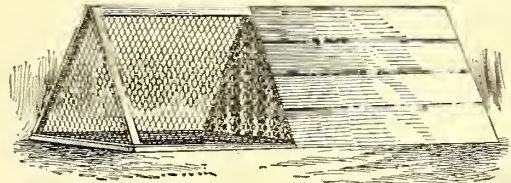


Fig. 22.

sometimes on feed-racks, sometimes on the farm machinery, or even the wagons and carriages. The result is not only untidiness, but fruit, feed, implements, and wagons are soiled and injured by the droppings, and sometimes vermin swarm in the roosting-places to such a degree that the hens are voted a nuisance rather than a desirable part of the farm stock. If these vermin-infested places are near the horse-stable, the mites may attack the horses, causing itching and a mangy condition of the skin, the origin of which is not always suspected.

PREFERABLE CONDITIONS.

Poultry-houses need not be elaborate in their fittings or expensive in con-

struction. There are certain conditions, however, which should be insisted upon in all cases. In the first place, the house should be located upon soil which is well drained and dry. A gravelly knoll is best, but, failing this, the site should be raised by the use of the plow and scraper until there is a gentle slope in all directions sufficient to prevent any standing water even at the wettest

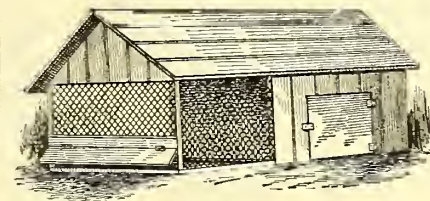


Fig. 20.

easily fitted for poultry by cutting a small door in the side and placing roosts and nests in the interior. (Figs. 1 and 2.)

of roosts are seen in fig. 8. The important points are a nearly flat or slightly rounded surface on the upper side and as few cracks and crevices as possible in which vermin may hide. The roosts may be made of 2 by 3 inch scantling, and should be so put in that they can easily be removed at any time for cleaning and disinfection. A platform is often placed under the roosts to catch the droppings and the nests are placed under this platform. In a house, such as fig. 9, the manure platform may be dispensed with and the nest-boxes placed along the front or sides of the building.

Nests.—The simplest form of nest is a box placed upon the floor of the

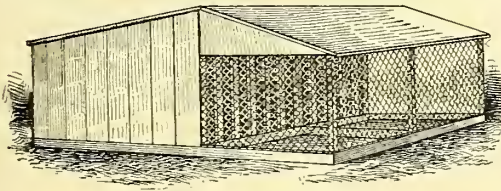


Fig. 18.

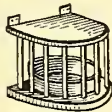


Fig. 26.

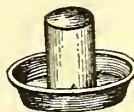


Fig. 27.

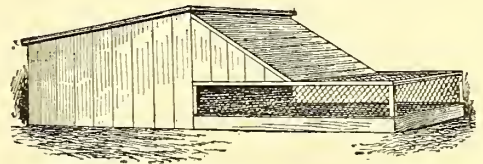


Fig. 21.

struction. There are certain conditions, however, which should be insisted upon in all cases. In the first place, the house should be located upon soil which is well drained and dry. A gravelly knoll is best, but, failing this, the site should be raised by the use of the plow and scraper until there is a gentle slope in all directions sufficient to prevent any standing water even at the wettest

INEXPENSIVE STRUCTURES.

In case there is no building suitable for remodeling into a poultry-house, an inexpensive lean-to may be built (fig. 3), or a new building constructed. A house for this purpose should be planned with a view to simplicity, economy, and convenience, while supplying the conditions proper for successful poultry keeping.

poultry-house. With heavy fowls, which are apt to break their eggs in fighting away other hens that try to enter their nests when they are laying and thus acquire the habit of egg-eating, a more concealed or dark nest may be necessary. (Figs. 10 and 11.)

Floor.—One of the most troublesome parts of a poultry-house to make satisfactory is the floor. Many use earth

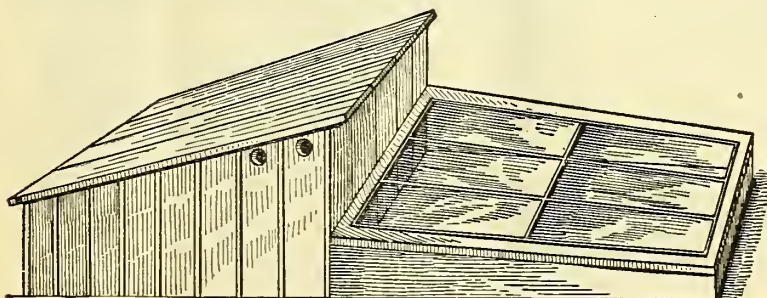


Fig. 24.

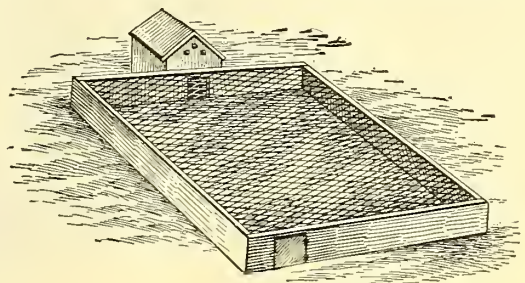


Fig. 23.

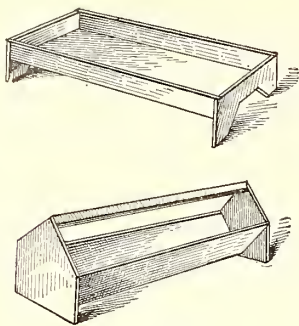


Fig. 25.

floors, but these are often damp, especially in cool weather, and then induce rheumatism, colds, roup, digestive disorders, and various other diseases. Some have put in cement floors, but have found these cold and also more or less damp. Probably a good cement floor, laid on broken stone and covered with a few inches of earth, would be satisfactory, if not too expensive. A board floor, six or eight inches above the earth, with good ventilation under it, is dry but too cold, except in the South. A double flooring, laid tightly with building-paper between, or a good single flooring covered with a few inches of dry earth, is probably the best. In all cases of board floors there should be sufficient space beneath for ventilation and to guard against the lodgment of rats.

Good plans.—A good style of poultry-house, with scratching-room under it, is shown in fig. 12. In case more than one flock is to be kept, the plan shown in figs. 13 and 14 has been found satisfactory and may be multiplied to any extent by adding to the ends. With such houses there may be fenced runs at the back or front, or on both sides, so that the birds may be kept confined.

SPACE TO BE ALLOWED.

The amount of space to be allowed for each bird depends upon the size of the birds, whether a shed is attached to the house or whether the fowls have a free run of the open fields. For birds in confinement there should be from 6 to 15 square feet for each adult bird in case there is no shed attached to the house; and with a shed this space may be reduced about one-half. The yards should be large enough to allow exercise in the open air, and to furnish more grass than the birds will eat. This will vary from 60 to 150 square feet per adult bird. The open shed facing the south, where the birds can be induced to hunt for their food and take exercise in all seasons of the year, and where they can enjoy the pleasure of scratching and dusting themselves in the sunshine, even during the winter months, is of great assistance in maintaining the health and productiveness of the flock. The roosting-space allowed should be 6 to 8 inches for the smaller breeds, 8 to 10 inches for the medium breeds, and 10 to 12 inches for the larger breeds.

VENTILATION.

Poultry-houses should be well ventilated, but so arranged that draughts of air will not strike the birds. Windows and doors should be provided in such locations that the sun may shine into the building a considerable part of the day. Sunshine is required both to keep the houses dry and to destroy various forms of infection.

POULTRY-COOPS.

A liberal supply of coops should be

provided for the confinement of hens with broods of small chicks, and for those hens which insist upon sitting at inconvenient times. A few days in solitary retirement will usually break up the desire to sit, and the hen will soon after resume laying.

The common A-shaped coop is one of the most easily constructed and convenient forms in use. The one disadvantage connected with it is the difficulty of removing the feeding and drinking-vessels for cleaning or of catching a bird in it without danger of the birds escaping. To obviate this, one of the slats may be made to slide, as shown in fig. 15. The opening made by sliding this slat is sufficient to admit the hand and arm so that any part of the coop may be reached without leaving an avenue of escape unguarded. Other forms of coops for the same purpose are illustrated by figs. 16, 17, 18, 19, 20,

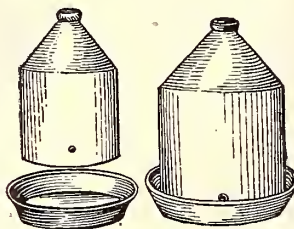


Fig. 28.

21, 22, and 23. For early-hatched chicks, which come out when the atmospheric temperature is so low as to be injurious to them, a combination of coop and glass-covered run, as shown in fig. 24, has been found very useful.

FEED-TRUGHS AND DRINKING-FOUNTAINS.

Two forms of feed-troughs are represented in fig. 25. For small chicks the troughs must be very shallow, or for the first few days the feed may be placed upon a square piece of board. Numerous forms of drinking-fountains have been devised, some of which are represented in figs. 26 and 27. A good fountain is easily made by cutting a small aperture in a tin can, as shown in fig. 28, filling the can with water, covering with a shallow pan or vessel of any kind, and then inverting the whole. The shallow vessel will remain filled with

water as high as the top of the aperture until the can is exhausted. It is important that fresh pure water should always be accessible to fowls, and the drinking-fountains should be cleaned and filled two or three times a day, if possible, and under no circumstances less frequently than once a day.

RANGING OF FOWLS.

Poultry may be raised with the greatest economy on the large farms of the country, where there is unlimited range, an exhaustless supply of insects and worms, and an abundance of seeds and grains going to waste which poultry alone can utilize. Under such circumstances fowls take care of themselves so well and are so energetic in seeking their food that they are either forgotten and allowed to shift for themselves, when they really need attention and assistance, or they are regarded as a nuisance because they sometimes do a little damage. When fenced away from the gardens and flower-beds, fowls do little damage and cause scarcely any annoyance on a farm. On the other hand, they do an immense amount of good in the protection of crops by the destruction of injurious insects, larvæ, and worms.

COLONIES.

Sometimes it is advisable to divide the farm flock into colonies and place these at different points upon the farm in order to secure additional range, to remove the birds temporarily to a distance from certain crops, or for other purposes. In this case cheap, light, and easily handled colony-houses (figs. 29, 30, and 31) may be constructed and placed where the fowls are desired to range. After being confined in these houses a few nights the birds will adopt them as their habitations and return to them.

POULTRY IN COMBINATION WITH SPECIALTIES IN FARMING.

There are certain special lines of agricultural operations with which poultry raising may be advantageously connected. In dairying there is usually a large quantity of skim-milk or buttermilk which may be utilized to furnish a considerable part of the poultry ration. There is also much food to be gathered by the fowls about the stables, manure-piles, and pastures which would otherwise go to waste.

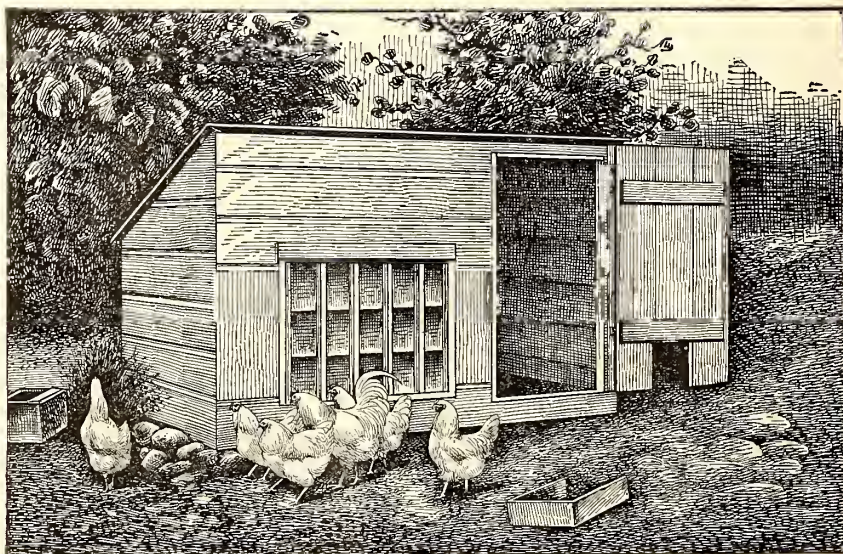


Fig. 30.

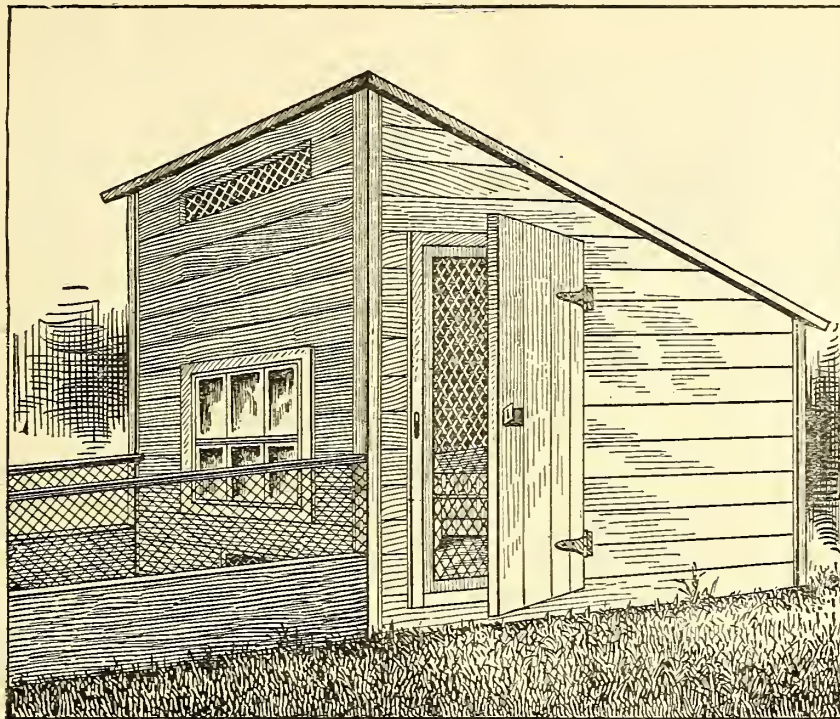


Fig. 29.

ADVANTAGES ON FRUIT-FARMS.

Upon the fruit-farm fowls are also of advantage. They keep down the insect pests, and they may have a free range the greater part of the season without the possibility of doing any damage. Plum growers have found poultry especially helpful in keeping down the curculio, and even apples have been considerably benefited. If small fruits are injured, they may, of course, be protected by confining the fowls for the limited season when the fruit is ripening. The waste fruits, either in winter or summer, are a welcome and valuable addition to the poultry ration.

POULTRY AND THE MARKET-GARDEN.

The market-garden also furnishes a large amount of waste products which may be utilized for poultry feed. There is the waste lettuce, the small heads of cabbage, the unsold beets, carrots, and potatoes, the peas, and corn which can not be marketed for any reason, the waste of the small fruits, etc. If properly cared for the hens will bring a steady and reliable income during the winter months. Dried clover and other green feed, roots, and tubers should be saved for them during the summer. These should be steamed and fed with the mash, or cabbages and beets may be fed raw. A catch crop of buckwheat or oats and peas will furnish much food at little expense. Bran, meat, meal, wheat screenings, and oats purchased for poultry will bring good returns in eggs and will also add materially to the fertilizer supply.

OPPORTUNITIES AFFORDED BY THE DAIRY.

Dairymen who have town or city milk-routes, and market gardeners who retail their produce, have exceptional opportunities for marketing fresh eggs and poultry at the highest prices. They become well acquainted with many of their customers by their daily visits, and they are looked upon as a direct channel of communication between the country and the city. They should by all means make the most of this ad-

vantage, for any class of agricultural producers who can reach the consumer without the intervention of the middleman is indeed fortunate.—*Farmers' Bulletin*, No. 141.

Shows and Associations.

The Springfield (Ill.) Fanciers' Association will hold their annual show Dec. 9-14, 1901. It is expected to be the largest show ever held in the State outside of Chicago. For further information address the corresponding secretary, L. M. Gietl, Springfield, Ill.

The Painesville Poultry and Pet Stock Association will hold its sixth annual exhibition at Painesville, Ohio, Jan. 2-6, 1902. F. G. Johnson is secretary and J. Y. Bicknell will judge.

The Torrington Poultry Association will hold their annual show at Torrington, Conn., Nov. 27-30. D. A. Nichols and D. J. Lambert will judge. Charles E. Young is secretary.

Feather Pulling.

This is the most disgusting habit hens can have, and it becomes not only a habit but a contagious ailment, the removing of which is most difficult. Formerly we thought it belonged to the female portion of the family as a girlish trick, but we are now satisfied that such is not the case, having seen a lot of virgin cockerels that had been kept alone, no females with them, as badly eaten as any flock of hens we ever saw.

Feather pulling is the first stage. This comes as an idle habit. Soon they learn to eat the feathers, and in plucking them sooner or later the blood is started and the feather-puller becomes a cannibal, and the habit clings to them for life. One of the best and most productive hens we ever knew gained the habit. She would eat all the feathers from every fowl in the pen with her. The only way to prevent her from so doing was to keep a bit in her mouth, but this, to our sorrow, brought trouble. She and two of our finest show hens began to lay; we put the three females with our best show male together for eggs, and during our absence for two days she got rid of the bit in some way and completely destroyed her pen-companions for exhibition.

One fowl soon learns the habit from another. As soon as they have a feast of blood from the carcass of a pen-companion dire destruction follows. We formerly thought that only fowls in confinement would gain the habit, but this summer we saw a flock of fifty or sixty Minorcas that had four acres of orchard to roam over that were all pulled to pieces. In the face of this, where is your lack of meat system? These fowls run out all the year around, winter and summer, into this orchard; now why do they eat and pluck feathers in this way?

The only solution of the question is habit, and the only way to cure the habit when once fully acquired is to kill the fowl that gains it. If properly bitted they can not pull the feathers even if they try, but when the bit is gone they will at once go at it. Idleness is the beginning of the evil, but when once it becomes a habit nothing will cure it but the ax. Some trim or cut off the laps of the upper mandible of the beak. This will do for a short time, but it will form again and soon. The poultry-bit is the only sure preventive and it will keep them from feather pulling only so long as it is in place.

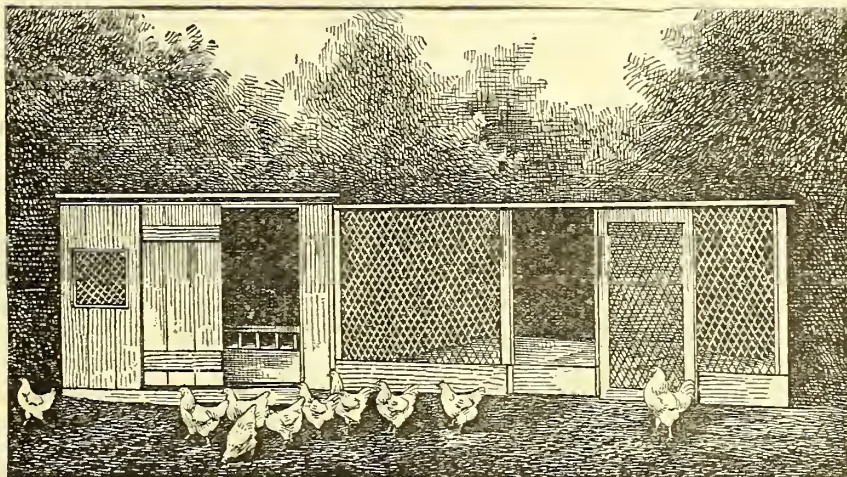
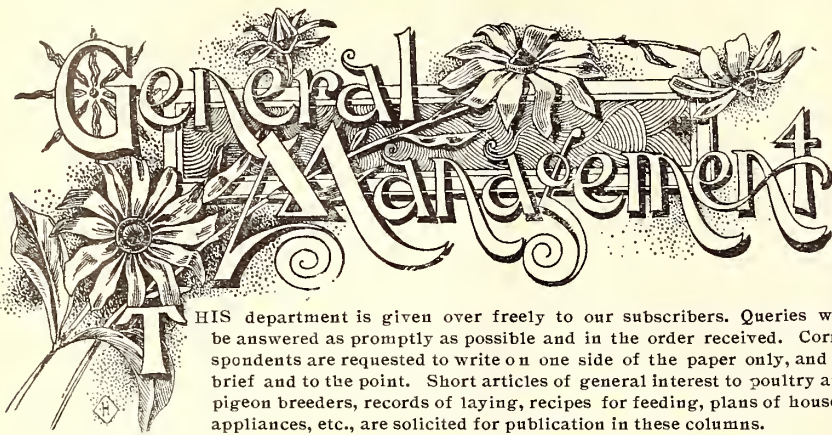


Fig. 31.



THIS department is given over freely to our subscribers. Queries will be answered as promptly as possible and in the order received. Correspondents are requested to write on one side of the paper only, and be brief and to the point. Short articles of general interest to poultry and pigeon breeders, records of laying, recipes for feeding, plans of houses, appliances, etc., are solicited for publication in these columns.

The Practical Management of Poultry for Pleasure and Profit.

The successful handling of fowls upon utility lines is a much-considered problem at the present time. Many fail in the undertaking for the simple reason that their efforts are not well directed. There may be, and often is, enough energy exercised to accomplish desired results, but lacking proper experience—an absolute necessity—discouraging results come. Too many have the idea that it is only necessary to have a house and a few hens well fed at irregular times, to suit their convenience, to gain good results. It is needless to say that such methods prove to result in failure, so far as profit is concerned. The hen that is allowed to shift for herself during the spring and summer gives a good return in eggs, from the reason that the food she finds for herself contains all the component parts of the egg, proving that the way to gain the much-wished-for egg-yield is to provide for the use of the hen the same manner of diet during the cold months that she finds when at liberty during the warmer period.

It is the fault of those in charge when any flock of well-bred hens does not produce a reasonable number of eggs during the winter months. It is the nature of all fowls to produce eggs during the natural breeding season. Those produced in excess of the proper nest-full for incubation are largely the outcome of the influence of man; for illustration, the increased egg-yield may be called an artificial condition that must be cared for most carefully to bring the desired results. The food and surroundings should come as closely as possible to the ration selected by the hens from the summer range.

THEIR NATURAL FOOD.

The natural food of the hen is grain, seeds, insects, bugs, and green stuffs, constituting what might be called a well-balanced ration of grain, animal, and vegetable foods. When in confinement, either during the summer or winter, this same manner of food must be supplied, or little success in egg-production will be obtained. When their necessities are not supplied the required egg-forming material is not present, and the hen finds it quite impossible to produce the eggs. The warmth of summer can not be provided during the winter, but good, comfortable quarters will protect them from the cold, which is all that is necessary, providing a generous supply of grain is furnished to

build up the animal-heat within the body and to maintain it in addition to the requirements for egg-production.

The proper amount and assortments of foods must be furnished at regular intervals, all of which should be cast amongst the loose straw, forcing the fowls to hunt and dig for their food, thereby providing them with much-needed exercise when they are kept in confinement, which will keep the heat in their bodies. When fed all they will eat in boxes, pans, or troughs, or upon the ground, they will hastily devour all they can grab and stand about for another meal; but when all their grains are cast among the straw, it will keep them continually digging, and digging the entire day, which invigorates the fowl and advances the egg-yield.

Too much attention can not be given to the prompt and regular supply of food. The delicate construction of the egg-producing organs of the hen demands as much regularity of food supply as must be given an infant of tender years. It is just as easy to give them this proper attention as to neglect them. The return for proper care will be a good egg-supply in winter. Neglect in this regard must end in disappointment.

Care in the providing of water for the

fowls to drink is of equal importance to that of their food. During the warmer months of the year fresh, clean water should always be within their reach. During the cold and frosty days they should not have ice-cold water to drink; the chill should be taken from their drinking-water and they should not have water to drink until they have spent an hour or two digging for grain to start their circulation. An ice-cold drink on a bitter cold morning chills them as it would a person. They should never be given warm water as it creates an unnatural heat within, a recovery from which causes a relaxation which retards the egg-yield.

CLEANLINESS ALL IMPORTANT.

It is an impossibility to succeed with poultry if their houses and surroundings are not kept clean. Filth and dampness are great hindrances; the first fosters vermin, the second brings most dangerous ailments to fowls. Clean, dry quarters for their living-apartments must, therefore, be considered as of first importance. An occasional cleaning up will not do. Perfect cleanliness must be observed, which is just as essential for the henhouse as for the barn—and no one thinks of allowing the latter to become filthy, yet why should the henhouse be neglected?

OYSTER SHELLS Crushed for poultry, fresh from Baltimore factory in 100 lb. bags, 35c each; \$6.00 per ton. 20c more per bag from Bath or Milwaukee. Circulars free.

Canfield Coop Co., 19 Main St., Bath, N. Y.

DON'T MISS IT!

Show your Stock at the Great

Washington Poultry, Pigeon, and Belgian Hare Show,

to be held at

Masonic Temple, 9th and F Sts. N. W.
Nov. 19th to 23d inclusive.

A large list of Specials and Cash Prizes, all paid on last day of Show.

Expert Judging—A. E. Warner, G. O. Brown, T. F. McGrew, O. E. Twombly, Samuel Rabbitt, Frank Jenkins.

Officers—James Raeburn, Pres.; F. J. Wissner, Vice-Prest.; Louis B. Duffie, Fin. Sec.; J. M. Alden, Cor. Sec.; Jos. F. Bardroff.

Send for our Premium List, and send us Your Birds.



ORR'S LIQUID LICE KILLER

Does the Business Quicker and Better than any other.

So say all who have tried it.
Booklets Free. Agent's Terms for Introduction.
Write to-day.

ORR & COOPER, 552 Liberty St.

PITTSBURGH, PA.

EDWARD S. SCHMIDT, 712 12th St. N. W., Washington, D. C. Agent, Wholesale and Retail.



THE HUMPHREY

The Best Bone Cutter
is the one you like best.

The Humphrey is sold on a positive guarantee to cut more bone, in better condition, in less time and with less labor than any other bone cutter made. If it doesn't do it, you get your money back. Try it for yourself and judge which machine you like the best. That's the only way. It beats the world as a vegetable or kraut cutter. It will pay for itself in six months.



Why the Humphrey
is Displacing others.

It has an open hopper—you don't have to chop the bone to pieces with an axe. You turn it with one hand and regulate the feed with the other. It has only three working parts—nothing to get out of order. It turns easier and is easier to keep clean. It produces bone in better shape for the fowls. Send for free book and egg record blanks for a year—the handsomest book of the season.

Humphrey & Sons,
Box 24, Joliet, Ills.

SALES AGENTS. Edwin S. Schmidt, Washington, D. C. Joseph Breck & Sons, Boston. Johnson and Stokes, Philadelphia. Griffith & Turner Co., Baltimore. Sure Hatch Inc., Clay Center, Neb. E. J. Bowen, Portland, Oregon, Seattle, Wash. and San Francisco. Des Moines Incubator Co., Buffalo, N. Y.

When a henhouse is infested with vermin to such an extent as to be untenable, one will wonder why any person could so neglect the home of such a useful animal, and thus be guilty of so much misery in the flock, often bringing about the scourge of cholera as a result of such neglect, all of which could be prevented with very little care. When close attention is paid to this important item, a gradual experience that is necessary to success with poultry is gained. No one can grasp the problem in a moment. With continued care and attention comes the knowledge resulting from actual experience well directed along lines above mentioned.

It is to be hoped that those interested may be induced to employ the most profitable methods in hatching and rearing their chicks, as well as selecting the best for most profitable maintenance as egg-producers.

Disappointments.

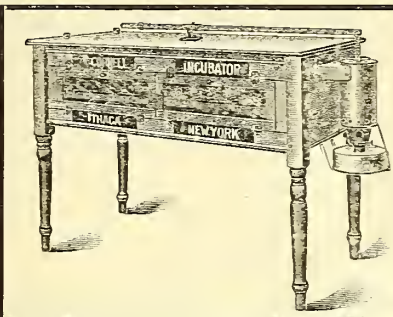
The time for the general round-up is at hand. The season's work is finished, so far as production is concerned, and it now remains for us to study the result of our matings and so discover if we have been successful or not. No doubt, in some cases, the outcome will be quite disappointing. The beautiful male bird, secured at a high figure and having a show record, has failed to reproduce the quality that his general make-up would promise; he, himself, has shown many defects in color which were not present when he first came into the yards; all in all, the cross has brought forth many hidden defects, probably belonging to both sides of the mating. The whole blame may not belong to the newcomer. If properly selected, he must have some fine points which may be desired to be introduced into his possessor's flock. If so, let him be kept for another year, and have some of his own pullets, the best of the lot, selected and mated with him the next season. If his fine qualities are transmissible they will surely come forth the next time; if they do not, he may be branded as a nondescript not to be depended upon.

Should it be found that all of his male product inherit the bad features of color shown in him, it may be concluded the defect is hereditary and an established shortcoming in the stock. This being the case it is far better to get rid of his whole lot of chicks rather than have his bad features infused into the flock. Perhaps even one of his cockerels will show white in wing when it should be buff or black. If such is the case and this one is introduced into the flock, it may take years to breed it out; therefore it is far better to discard the whole lot than to risk the destruction of the entire flock. When a color defect is present to such an extent it should be a warning taken in time rather than to hope for better things from an uncertain cross.

Such misfortune will often come from well-bred stock; stock that has been bred long enough to reproduce well at home but not sufficiently strong in its own strain characteristics as to stamp them in the young when combined with a violent cross, thus showing how very necessary it is to continue for years our effort to strengthen the strain lines and to know that they are sufficiently well established to feel sure we can recommend them to others with reasonable

Cornell Incubators and Brooders

At the **PAN-AMERICAN** have been awarded the **GOLD MEDAL**,
the highest honors at the **WORLD'S GREATEST EXPOSITION.**



**Self Regulating, Self Ventilating,
Neat Appearing,
Simple in Construction.
Reasonable in Price.**

These machines are the latest and most modern inventions for artificially hatching and rearing chickens. The great superiority of the Cornell Incubators and Brooders is due to the regulation of ventilation and heating. No fowl air or poisonous gases can accumulate in the egg-chamber to poison or destroy the germ, as in the case of nearly all other makes. Our new improved Brooders are also automatically heated and ventilated. You can keep the heat at a constant temperature, with no cold corners nor hot spots in which the chicks will crowd. Send for free descriptive catalogue. If the machines do not please you send them back. We will refund the money.

Buy the Cornell and Get the Best
Hot-Air Incubator and Brooder ever put on the market. Write to-day.
The Cornell Incubator Mfg. Co.,
Dept. G, Ithaca, N. Y.

assurance of their self-assertion over all obstacles that may be encountered.

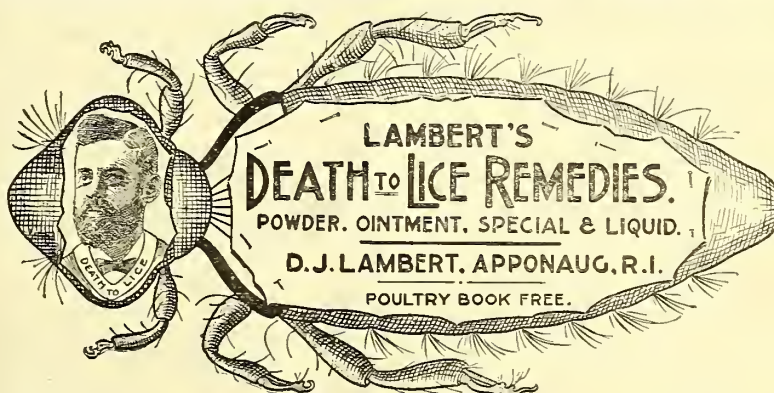
While judging the poultry display at one of our county fairs, the writer of this article examined a line of well-shaped birds of miserable color; their fine form and regularity of type attracted much attention. The establishment of such regular formation in the whole display would prompt one to say that they all belonged to one man. After the judging was completed the owner came forward asking to be told what was wrong with his young stock, to which he received the reply that they were the result of a bad cross. He then invited the writer to his home to see his matings, which was afterwards done, and it was found that he had introduced three new male birds into his yards, these male birds being selected on account of their color being the same shade as that of the prize-winners at one of our leading shows, and were said

DON'T SET HENS the same old way when our new plan beats it 10 times.
100 Egg Hatcher Costs Only \$2. Over 94,000 in use, 100,000 nests, 50,000 agents wanted for 1902, either sex. Pleasant work. Big profits. Catalog and the Egg Formulas FREE! Write today.
Natural Hen Incubator Co., B. 9, Columbus, Neb.



A ROUP PROOF FLOCK

is clearly possible when
Rust's Havens' Roup Pills
are kept constantly on hand and fowls are treated on slightest appearance of indisposition. Those already suffering from the malady may be quickly cured and restored to health and profit by their use. They are equally effective for Catarrh, Distemper, etc. These pills utterly upset the old theory that the ax is the only cure for roup. Used and endorsed by the leading breeders and poultrymen everywhere. One small box will convince. Buy now and be ready for the first indication of disease in your flock. 25c and \$1.00 of dealers or mailed on receipt of price. If your dealer does not have them, send us his name and receive our booklet free.
William Rust & Sons, Box 12, New Brunswick, N. J.



LAMBERT'S DEATH TO LICE REMEDIES.

POWDER. OINTMENT. SPECIAL & LIQUID.
D. J. LAMBERT, APPONAUG, R. I.
POULTRY BOOK FREE.

DON'T WRITE ME...

Unless you want stock as good as the best at reasonable prices. Order early and get your first pick. I have some bargains in early-hatched chicks. Over two thousand birds to select from. White and Barred Plymouth Rocks, R. I. Reds, Light Brahmas, and White Wyandottes. Also eggs for setting. Write for full particulars.

Goodrich Poultry Farm,

Lock Box 5, West Duxbury, Mass.

B. F. GOODRICH, Proprietor.

85c. for 100 Sq. Ft.
with caps and nails of

SWAN'S EXTRA HEAVY FELT ROOFING FOR POULTRY-HOUSES.

PAINT YOUR POULTRY-
HOUSES WITH

Swan Brand Cold Water Paint.

Send for Color Card.

ADDRESS THE A. F. SWAN CO., 112 Nassau St., N. Y.

to be the sons of the winner. His color, also the color of the three new males, was so bad that the whole product of the year was of no value. This is the most unfortunate side of the object-lesson of a blue or red ribbon in front of an undeserving specimen.

Disappointments of all kinds are the lot of a poultry fancier. Now he has it, and now it is gone. This year's work may bring great expectation to repay for our labor, only to be followed by sorrow for a misjudgment in our matings the next time. There is but one remedy for all these woes, and that is found only by following the rules laid down within the Standard, where shape and color are both described as they are required to be. It is not for one moment to be supposed that a brilliant black with a beetle-green sheen refers to a brownish black; nor that a yellow beak and leg allows a willow shade to fill the bill; nor that a pale yellow is white. A Cochins with a long back, narrow saddle, and short, scanty feather has no standing within this guide. Neither a red, brown, nor buff-colored bird of a Plymouth rock or Leghorn shape should stand even a ghost of a show in the Wyandotte class, though the comb may be of most perfect breed. Color and shape are clearly described; if we select brown for black, red for buff, or a bird with yellowish cast for white, this is our fault, not the fault of the Standard. If offered a bad dollar for a good one we do not accept when told it is the proper shape, nor will we accept a counterfeit when told it is the proper color; both must be correct, otherwise it carries no value; thus should we be guided when selecting our breeding stock.

The new Standard is before us, and this is our only guide. Its contents should be studied well from cover to cover; not a single portion that refers to your special breed should be passed over. The "Instructions to Judges" is quite as essential to the breeder as to the judge. The Glossary is revised to meet the wording of the Standard. All should be studied as though one were preparing to recite from memory, and the contents should be the only guide, what some one thinks or says to the contrary, to be unnoticed. The Standard alone is the law by which our fowls must be judged.

There are many features of the most undesirable character cropping out from our most careful matings, which discourage and disappoint. This being the case, then why increase these troubles by bringing into the flocks bad shape, and color of so plain a nature that even the merest amateur would discard as unfit for any use in a breeding-yard?

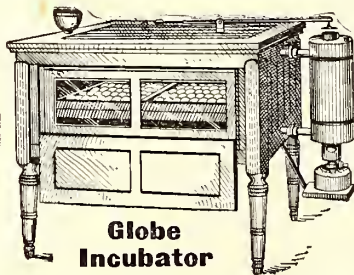
The annual exhibition of the Merrimack Valley Poultry and Pet Stock Association will be held in Independence Hall, Haverill, Mass., Dec. 10-14, 1901. Geo. S. Drown, secretary, Groveland, Mass.

Big Money In Chickens

By Using a Globe Incubator Many
Men and Women Add \$500 a
Year to Their Income.

Easy Work and Little Expense.

Any man or woman can raise chickens successfully with a Globe Incubator, and there is a lot of money to be made all the year round by the small as well as the large chicken-raiser. There is always a good cash market for chickens, and the Globe Incubator hatches out healthier, stronger chicks and more of them to the 100 eggs than any other incubator on the



Globe
Incubator

market. It is so simple to operate and regulate that any person can handle it successfully, and today hundreds of men and women, business men, preachers, teachers, mechanics, railroad men, clerks, and day laborers as well as farmers and farmers' wives are adding a snug sum to their annual income with chicken-money and without any cash outlay to speak of. There are to-day many of the large chicken-raisers, who number their profits by the thousands of dollars and occupy whole farms with their chicken houses and yards who started with one Globe Incubator and it did the rest. Leisure hours with the Globe will produce chickens for family use and net a nice sum of pocket-money besides, every year. Write C. C. Shoemaker, Box 456, Freeport, Ill., to-day and he will send you his price list and catalogue of Globe Incubators and tell you free how you can add \$500 or more to your annual income in an easy, pleasant manner and not require much cash to start.

IMPORTED AND DOMESTIC BELGIAN HARES.

MY BELGIAN HARES represent the leading strains of America and England. My facilities for obtaining Imported Stock at low prices are unsurpassed. Breeding-Ranch, Kansas City, Kan. "True Gold," imported, winner 3 firsts and 1 special; stud fee, \$5. "Duke of Connaught," imported, winner 1 first and 1 second; stud fee, \$5. Grand Domestic Bucks, stud fee, \$2.50. I won 5 firsts and 4 seconds at late Hagerstown Show, and Special Diploma for best display. \$10 Trios My Specialty. Eastern Agent for the Lanphere Belgian Hare Importing Co.

The IDEAL RABBITRY, E. L. BARCLAY, Prop.

Member Southern Belgian Hare Association.
Vice-President National Flying Club.

E. L. Barclay, Jr., Mgr.

812 21st St. N. W., Washington, D. C.



L. O. BROMLEY'S Forestville, New York, won, on ten S. C. B. Leghorns this season, at Erie, Pa., 1st cock, 2d hen, 1st pen, 1st cockerel, 1st, 2d, 3d, and 4th pullets, silver cup and special for ten highest-scoring Leghorns. At Boston, Mass., on three entries, 1st pullet, 1st hen, 3rd pen; hen in novice. Eggs, \$2 per 15. Catalogue.

ARE YOUR HENS LAYING?

If not, use **OYAMEAD, THE GREAT EGG PRODUCER**. Not a cod-liver powder or egg food, but a specific that stimulates the egg-producing organs and **MAKES HENS LAY**. Enough for 10 fowls one month, 50c., postpaid. Trial package, 25c., postpaid. Oyamead Mfg. Co., Box 44, Rochester, N. Y., and all first-class poultry supply dealers. "Winter Egg Production" by Nellie Hawks, free, send for it.

BUSINESS OPPORTUNITIES IN THE NEW-ly discovered gas and oil regions. Thousands have secured homes and fortunes by obtaining employment or engaging in business. "Business Opportunities" will give you trustworthy information as to localities where large capital is being invested, labor is well paid, and opportunities for business are most attractive. If you are not satisfied with present conditions, desire a home and a new field of activity, subscribe at once. \$1 per year; 3 months' trial subscription, 25 cts. Address:

Publisher "Business Opportunities,"
1843 Wabash Avenue,
DEPARTMENT 146, CHICAGO, ILL.
"The best opportunities are the earliest ones."

Poultry, Pigeon and Pet Stock Printing.

Stationery illustrated with their breed has long been used by the most successful fanciers. It is one of the secrets of success. Now is the time you need it. I have a fine collection of thoroughbred cuts; and when used on cards, round cornered and elegant assorted colors at 50 cents per 100 and up—letter-heads, envelopes, etc., will bring you results. Best work guaranteed. Samples, etc., free. Name your favorites.

JOHN ENGEL, JR. 90 Komorn St., Newark, N. J.

SHOEMAKER'S BOOK ON POULTRY



And Family Almanac for 1902. 160 pages 100 engravings: the finest work of its kind ever published. Gives recipes for making egg food; condition powders; remedies for all diseases of fowls; plans and diagrams for building poultry houses, tells you how to raise chickens profitably; gives full description with illustrations of 48 leading varieties of pure bred fowls. It is an encyclopedia of chicken information, worth many times its cost to anyone interested in poultry. You positively cannot afford to be without it. Sent postpaid on receipt of price 15 cts. Address C. C. SHOEMAKER, Box 274, Freeport, Ill., U. S. A.



EASTERN SHORE POULTRY-YARDS,

The place where fine S. C. White, Brown, and Buff Leghorns are bred to win.

My birds have won at the GREAT WASHINGTON, PHILADELPHIA, and NEW YORK SHOWS. Extra Early Fertile Eggs from my best matings, \$1.50 per 15; \$4 per 50; \$7.50 per 100; \$35 per 500. For sale—a limited number of S. C. White and Brown Leghorn hens and pullets at \$1 to \$1.50 each.

A Member of American Leghorn Club.

A. C. VAN DEMAN, Parksley, Va.

THE BUSINESS WORLD

As Viewed from the Columns of
The Feather.

MANN'S 1902 MODEL.

Mann's 1902 Model Bone Cutter, has successfully solved the bone-cutting problem.

Every one who has had much of it to do, knows that bone cutting has not been easy work, and that often it has been a task to be dreaded, even by those who knew best the great value of cut bone as a food. How to reduce the labor, and remove this dread, was the problem that confronted the manufacturer.

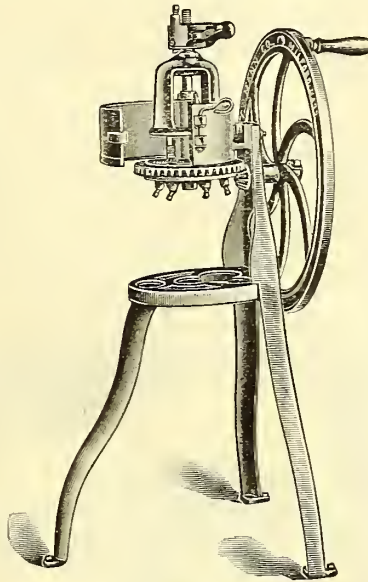
The difficulty had been to find some way to control the power or strength required to operate a bone cutter, making it possible for a slight, frail body to use it. The F. W. Mann Co. have studied the problem for fifteen years, and have at last successfully solved it. They first tried the hand feed, one hand doing the turning, the other holding the feed. At that time, it was the best there was, but the feed hand would get tired, almost as tired as the one turning. That gave way to the automatic feed, which fed itself and left both hands free, making the work much easier. But automatic feeds had their drawbacks too, notwithstanding they were infinitely better than the hand feed. The trouble was that the automatic feed would push the bone forward uniformly, forcing a hard bone along just as fast as a softer one, the knives cutting off as big a chip on one as the other, requiring much more strength for the hard bone, and, of course, tiring the operator more.

It was necessary to overcome this unequal strain. It took months and years of experiment, but at last the F. W. Mann Co. hit upon the idea. They found that the feed must not be regular, that when cutting hard bones they should not be forced along as fast, and that by taking a lighter chip on the hard bones, they cut just as easy as the soft ones.

Their 1902 Models all have this ingenious feeding-device. It can be set for a child, a little girl, and she will cut a fair quantity of fine poultry food, then by simply turning the screw which controls the governor, it can be set to suit the strength of a vigorous boy, who, in five minutes, may cut as much as the girl cut in a quarter of an hour.

By another turn of the screw, it may be set to suit a man's strength, who will cut five times as much as the boy. By applying steam or other power, it can be multiplied again by five or more. In other words, the capacity in every case is suited to the operator's strength. You can cut as rapidly as you like, and never need overtax yourself, for whether the bones are hard or soft, the machine turns with the same ease, the governing device seeing to it that soft bones are fed up to the knives faster than the hard ones.

This device is patented. No other type has it. It places Mann's pre-eminently at the head. Mann's does not waste the meat or gristle. There are no dangerous splinters to threaten the life of your fowls. Everything is cut without waste and remarkably easily, considering the hard nature of bone.

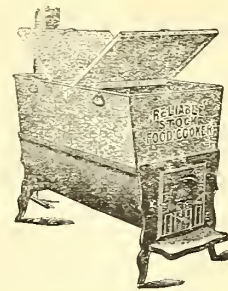


Mann's 1902 Model.

Space forbids mention of the many other improvements, the open-hinged hopper, extra table room to catch the bone, and the many other new features introduced by the F. W. Mann Co., Milford, Mass. Their handsome new catalogue is free for the asking, and explains all.

DO YOU FEED COOKED FOOD?

None of the really progressive stockmen or chicken raisers doubt the advisability of feeding cooked food. The



Reliable Stock Food Cooker.

cooker has become a necessary fixture on the modern farm, so we will not waste space by trying to convince you of what you already know.

The particular cooker we would call your attention to is the Reliable, manufactured by the Rippley Hardware Company, of Grafton, Ill. It burns wood or coal, and with boiler of heavy No. 22 galvanized steel it is one of the best on the market. The Rippley people are the largest manufacturers of feed cookers in the world. Write to-day and let them tell you the full story.

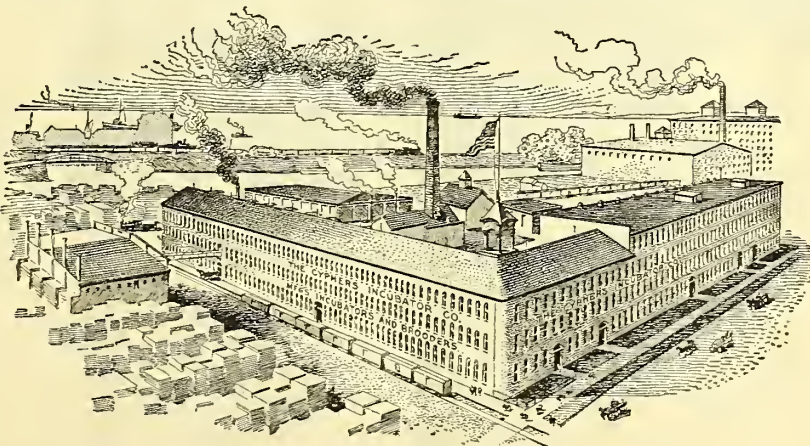
GETTING CLOSE TO THE PEOPLE.

We are glad to call the attention of our readers to the enterprise of our advertisers, the Reliable Incubator and Brooder Co., of Quincy, Ill., who have arranged for eastern representation as noted below. The parties named, we understand, are in position to ship the goods at once, thus saving purchasers near them considerable, both in time and freight. One of the agencies referred to is D. L. Orr, of Orr's Mills, N. Y. The other house is W. G. Pearce & Co., 129 2nd St., Fall River, Mass. Both of these parties are well known to the poultry fraternity, and we are disposed to congratulate both the Reliable people, and the gentlemen named above for the relationship which has been entered into. It will be to the advantage of our readers to correspond with the house nearest them, and this we are glad to urge their doing.

FACTORY AND HOME OFFICES OF THE CYPHERS INCUBATOR CO.

On October 1st the factory and home offices of the Cyphers Incubator Company were removed from Wayland, N. Y. to Buffalo, N. Y., where the company has now ample space and every modern facility for manufacturing their popular line of goods and conducting a large business. The new factory and home offices are located at the corner of Court and Wilkeson Sts., within half a mile of the City Hall. The Buffalo Belt Line and the Erie Canal parallel their warehouse and shipping-rooms on opposite sides. Their lumber is brought from the Michigan, Wisconsin, and Canadian sawmills direct to the factory by boat, thus placing them in a position to buy the principal material used in their product at the lowest market prices. In this new location they have unlimited power and their equipment of machinery has been added to until their plant is now a model one. Herewith is shown a view of the building now occupied by this company.

Buffalo is an ideal location for the manufacture of incubators, brooders, and other poultry appliances. This city has unexcelled shipping facilities both by rail and water. Buffalo is the natural gateway between the East and the West as much so as though an arch were built and people traveling east or



Factory and Home Offices of the Cyphers Incubator Co.

west passed through it. The Southeast and Southwest are reached from Buffalo by direct trunk lines, while across Lake Erie and Lake Ontario lies the garden spot of Canada. Buffalo is the principal eastern lumber market and one of the leading wood-working cities in the Union. Skilled labor is available in all departments.

The progress made by the Cyphers Company has been rapid and it is believed that this removal to Buffalo will prove highly beneficial to the company and its many customers. With its factory and home offices at Buffalo, and branch offices and salesrooms at New York City, Boston, and Chicago, the Cyphers Company is in a position to fill all orders entrusted to it at an important saving to customers in both time and money.

WINNERS AGAIN.

H. B. Gregory & Son, the well-known fanciers of Akron, Ohio, exhibited some fine poultry at the Akron, Summit Co., Fair, Oct. 1-5, 1901, making eighteen entries, winning sixteen premiums—eight firsts and eight seconds, as follows: Black Minorcas; first cock, second hen, second cockerel. Black Tailed Japanese Bantams; first cock, first hen, first and second cockerels, first and second pullets. Black Cochins Bantams; first and second cocks, first and second cockerels, first and second pullets, second hen. They write they have an extra fine lot of bantams of the varieties mentioned for sale and guarantee stock to be as represented or money refunded. The following testimonial speaks well for both their stock and business methods:

Galena, O., Sept. 30, 1901.

H. B. GREGORY & SON,

Gentlemen: Your letter asking me of my success with your eggs is received. Will say never bought any better. Hatched well and stock is fine as silk. Have taken first prize wherever shown. Thank you for your honesty and square dealing. Will say your yard should be called the "Golden Rule Poultry Yard."

G. A. GOODRICH.

TRANSFER OF STOCK.

This is to certify that we have this day sold and shipped our entire flock of African and Toulouse Geese and Cayuga Ducks (including all our winners at Hagerstown and Philadelphia) and balance of our flock of Embden Geese to Mr. E. A. Weimer, Lebanon, Pa., proprietor of the Exmoor Farms, and would respectfully recommend Mr. Weimer as now owning the best flock of these varieties in the country.

MILLVILLE POULTRY FARM CO.,

M. F. Delano, Pres.

Millville, N. J., Sept. 9th, 1901.

The above notice explains it self. It is one of the most remarkable sales made in recent years, and the figure paid for the stock mentioned is, no doubt, a heavy one. Exmoor Farms should be congratulated on having so enterprising a superintendent as Mr. Theo F. Jager, who financiered and closed the deal. The best, in fact the largest number of best, ducks and geese are now Exmoor property. They should have a mortgage on winning anywhere. If in need of good stock don't fail to address them.

FIRST-PREMIUM BIRDS.

Mr. James A. Davis, Portsmouth, Va., is advertising the Bright strain of Single Comb Brown Leghorns. Mr.

Davis took first premium on every entry at the Virginia State Show, at Norfolk, 1900. He has some fine-bred cockerels and a few choice females for sale, and guarantees satisfaction. See his ad in classified columns and write him for further information.

TRANSFER OF STOCK.

OFFICE, EXMOOR FARMS,

Lebanon, Pa., Oct. 8, 1901.

To whom it may concern:

We have this day shipped to Mr. J. Franklin Hiller, of Frey's Bush, N. Y., the choicest blood in Colored Muscovys, Cayugas, Pekins, Indian Runners, and Rouens that we have the fortune to possess. All parties looking for stock or eggs of the best selections in the mentioned varieties will do well to consult Mr. Hiller, as better blood than we shipped does not exist. Mr. Hiller purchased our late winners at Hagerstown,

Boston, New York, Carlisle, Pa., Middletown, Pa., Trenton, N. J., etc.

EXMOOR FARMS.

Per Theo. F. Jager, Supt.

Chick Manna

makes a certainty of raising chicks after hatching them. Try a little and we will sell you more. 1 lb. by mail, 25c; 5 lbs. by express, 40c; 60 lb. case by freight or express, \$4.20.

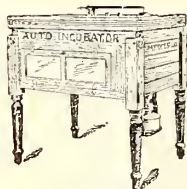
Gape Worm { Metz, 25c } They
Extractors, { Eureka, 10c } Get
{ Silver, 10c } There

POULTRY SUPPLIES of every kind, all described in our illustrated catalogue sent free on request. Write for it to-day.

Johnson & Stokes, 217-219, Philadelphia

THE "AUTO" INCUBATOR

...Is a first-class, reliable hatching machine...



It has a system of heating by double radiators, that secures and maintains an even temperature in all parts of egg-chamber. Its double-acting loop thermostat is said to be the best device yet invented to regulate the heat in hatching-chambers. Its system of protected ventilation, both inlet and outlet with-out slides or dampers or any other mechanical contrivance to check or regulate the air that passes through the egg-chamber, gives it positively automatic ventilation which settles all questions in regard to the moisture or no-moisture problems.

Send for catalogue and get all the facts.

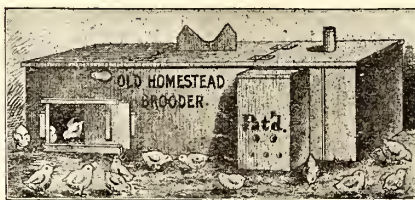
AUTO INCUBATOR CO., Cos Cob, Conn.

Ducks from Door-knobs.
Some incubators promise everything in sight; either ducks from door-knobs, or chicks from china nest eggs, and a full grown bird in a week or two. The

PETALUMA INCUBATOR
won't do that. It's just a good incubator—made for hatching eggs in the best possible way. It is made on scientific principles, of good honest material, by honest workmen. Consequently it will do all that a good incubator ought to do. We think our construction is a little better than any other; we are sure we take pains; we know we please the people. If you are looking for a machine that will hatch all the fertile eggs, you'll be interested in **THE PETALUMA**. Our large illustrated catalogue is sent free upon request.

We pay freight anywhere in the United States
We make a good brooder too.
Petaluma Incubator Co., Box 508, Petaluma, Cal.

F.B.W.Co.



THE Old Homestead Brooder

Is the only Brooder made in the world that will hover its allotted number of chicks until they are three months old. We make three sizes, 30, 50, and 100 chicks. Catalogue free.

OLD HOMESTEAD BROODER CO.,
Middleboro, Mass.

Valley Farm

SIMSBURY, CONN.

Property of JOSEPH B. THOMAS, JR.

The home of America's Finest Barred and White Plymouth Rocks, Houdans, Faverolles, Bronze Turkeys, Belgian Hares, (Borzoi) Russian Wolf Hounds. Exhibition Stock now for sale.

Address J. F. CRANGLE, Mgr., Simsbury, Conn.

THE PRICE OF EGGS.

The indications are that eggs will bring a good price this fall and winter. Now is the time to get your hens in laying condition. Nothing in the world will produce so many eggs as a diet of fresh cut green bone. With a Humphrey Green Bone and Vegetable Cutter you can cut it easily and rapidly. The manufacturers guarantee it to cut more bone, in better condition, in less time and with less labor than any other.

A handsome book containing blanks for a year's egg-record and timely hints for the care of poultry every minute in the year will be sent free to any of our readers upon request. It will pay you to get one. Address Humphrey & Sons, Box 24, Joliet, Ill.

The Washington Show.

The premium list of the first exhibition of the Washington Poultry, Pigeon, and Belgian Hare Association is issued. This association will hold its show in Masonic Temple, this city, November 19—23, 1901. We understand that every arrangement has been made for the event, and in their appeal to exhibitors they make the following declaration in the premium list: "We present for your consideration and approval our promises for the show. We will be prepared to redeem all promptly as soon as the awards are made. We have secured the best of judges, and we ask every fancier to give us a helping hand, giving the assurance that they will be fully repaid for the

same. We ask all to carefully look over our classifications and cash prizes offered, besides the list of special premiums. We can give assurance that the list of specials will be even larger than the total published in this book."

Mr. Frank Spahr is superintendent of the poultry classes, and Mr. Joseph F. Bardroff of the pigeon classes. These two gentlemen are well equipped for the work, and each is well and favorably known to the fraternity. Notice ad in this number and send for premium list.

Profitable Egg-Production.

The Two-Hundred-Eggs-per-Year Hen.

Since we stirred the poultry press to the center, some eighteen months ago, with our 200-eggs-per-year hen, the pot has boiled over in all directions and we have as regular diet on all sides; how to produce 200-eggs-per-year hens. This proves the productive powers of our Americans; just give them an idea and they will soon work it out.

Commercial Poultry stated a few issues ago that the average egg-production of our hens in the United States is three dozen per year. Taking this for a sample of existing conditions we see plainly the necessity of an increased egg-yield if we hope to make poultry pay. Mr. Durling tells that a man is fortunate if his eggs sell at an average price of two cents each the year around. Most certainly this is true, but we have often

bought a basket of fresh-laid eggs early in the spring at a small inland town for seven or eight cents a dozen. Where will these prices land the man whose hens only lay three dozen a year?

There are two elements of success that must be joined hand in hand for good results. These are a large egg-yield and a long price for your eggs. You must have both to do the best, and both can be obtained and maintained if good care and judgment are displayed by the producers. Eggs that are really fresh-laid eggs can be sold better right close by home usually than when sent away. All that is needed is to look about for customers near home that will buy your eggs at good, reasonable prices.

The hens can be trained to produce the eggs if fed and bred right. Both are of equal importance. Hens must be bred to lay or they will not do the best work. They must come in line from good egg-producers or they will fail in the work demanded of them. Farmyard or barnyard fowls will not do the work; you must have pure-bred fowls that inherit laying qualities or you will fail to get the large egg-production.

Other points for consideration are strength, health, and vigor; all these combine to furnish the requirement for continual egg-yield, which is a heavy strain upon the vitality of the hen, that must have her many wants supplied or she will fail, even though she may have the constitutional ability to do her part. While to read and consider all these questions seems laborious, it is a simple matter when properly understood.

GOLD MEDAL AND HIGHEST AWARD

AT THE PAN-AMERICAN, OCTOBER, 1901,

3 3 WERE PLACED ON 3 3

The Cyphers Incubator.



WE DO not attach great importance to medals and awards, no matter by whom given. What we do swear by is the fact that the Cyphers is to-day used with uniform success on Twenty-six Government Experiment Stations in the United States, Canada, Australia, and New Zealand; also by America's leading poultrymen and by many thousands of persons in every walk of life. The Cyphers Non-moisture, (original and only genuine) Self-ventilating, (diffusive principle fully covered by patent) Self-regulating Incubator is now

THE STANDARD HATCHER OF THE WORLD.

It is used in every country on the Globe where poultry is produced for market and is giving satisfaction "the world around." (Ask for foreign testimonial sheet.)

The Cyphers Incubator is sold Under a Positive Agreement that it will do satisfactory work in the hands of every purchaser who will give it a fair trial, or it can be returned and the price paid will be refunded. Agents for the Cyphers Incubator are authorized by contract to stand back of this Guarantee in every particular.

Illustrated, descriptive, 32-page circulars, English, German, or Spanish, Free on request. Complete Catalogue and Poultryman's Guide, 224 pages, 8x11 inches, weighing one and a quarter pounds, 10 cents in stamps for postage. Ask for Book No. 6, and address our nearest office.

CYPHERS INCUBATOR CO.,

BUFFALO, N. Y.,
Cor. Court and Wilkeson Sts.

CHICAGO, ILL.,
325 Dearborn St.

BOSTON, MASS.,
34 Merchants Row.

NEW YORK CITY, N. Y.,
8 Park Place.

THE FEATHER,

Washington, D. C.

Published the 1st of each Month by
GEO. E. HOWARD & CO.

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ADVERTISING RATES.

Advertising rates per insertion 15 cents a line, agate measure, 14 lines to an inch. Discount card on application.

GEORGE E. HOWARD, Editor.

All matter intended for publication should reach us by the first of the month preceding the issue in which the same is to appear.

Write your name in full, giving full post office address plainly, so there will be no mistakes.

When writing for publication use only one side of paper. Brevity is the soul of wit.

Advertising in The Feather.

The Feather now offers the best and cheapest advertising in the country. Its circulation has increased more than one hundred per cent during the last year. Its advertising rates are lower than those of any other journal of equal standing and circulation.

The Feather reaches the people that transact the poultry and pigeon business of the country. Its publishers have made a special effort to include among its readers all the most successful and most enterprising fanciers. Advertisers are often astonished by the large amount of business which comes to them after running their card a few months. There is no other medium which reaches so large a proportion of readers in all sections of the country who are able and willing to buy when they learn who are offering the stock or supplies which they need.

No advertisement will be inserted at any price from persons who are not responsible or who fail to deal honestly with their patrons. We particularly request our readers to notify us of any advertisers whom they believe to be dishonest or fraudulent. Honest advertisers will be protected—dishonest ones will be denounced.

New advertisements must be received not later than the 15th of the month. Copy for change of advertisement must be received not later than the 5th of the month.

Remittances should be made by postal money order, registered letter, bank draft, or express money order.

All remittances should be made payable to

GEO. E. HOWARD & CO.,

305 10th Street N. W.,

Washington, D. C.

SUBSCRIBERS. When a subscriber finds this item marked, he will understand that his subscription has expired, and that he should renew promptly before the next issue is published.

ADVERTISERS Must have copy in for change of advertisement not later than the 5th of the month. Copy for new ads must be received by the 15th of the month to insure insertion.

TO AGENTS. We offer the most liberal terms to agents, and our plans and arrangements are so liberal this season that there will be money in acting as a representative of THE FEATHER. We want new agents in every neighborhood in which we are not already represented. It will pay you to write us at once and get our terms. Good profits are to be made from the sale of our publications, and it will pay you well to investigate. Write us for full particulars and free outfit.

Entered at the Post Office at Washington, D. C., as second-class matter.

NOVEMBER, 1901.

The Coming Fowl. At the present time there is no more popular fowl than the White Plymouth Rock. This popularity has come to them gradually and from truly deserving quality. It is often stated that this variety and the White Wyandottes are the same breed, excepting in the difference of comb. Such is not a fact. One of the most marked differences is in the White Plymouth Rocks laying the larger egg, a valuable difference in favor of the Plymouth Rock. There is this same difference in the Buff Wyandottes and the Buff Plymouth Rocks. Plymouth Rocks of all varieties lay larger eggs than the Wyandottes.

* * *

If the breeders who guide the White Plymouth Rocks will contend for their breed characteristics in the highest degree and decry all who allow the Cochins to creep into the breed, at the same time standing against the recognition of the Wyandotte type

when placing the awards, they would soon see their favorite breed at the front. Shape is the first, size second, then color, and then it is necessary to demand that all shall be of equal quality, and that quality as described in the Standard.

Pure White Plymouth Rocks of good size is the demand; if they are not true to shape, they are not Plymouth Rocks; if not true to color, they are not White Plymouth Rocks; if small or under size, they are not of much value as White Plymouth Rocks. Neither should they be too large, as this would destroy the proper proportions and give them an awkward appearance. The three attributes—shape, size, and color, so well established and properly balanced as to present the true White Plymouth Rock in every particular.

* * *

The claim of the White Plymouth Rock to the title of great quality in all utility requirements, as well as elegance in finish as show specimens, can not be denied. They possess in the highest degree all the qualities which delight the true fancier and at the same time are popular in the poultry market. Their powers of egg-production are equal to the best. No fowl has a richer golden-yellow color in shanks and skin. All these qualities combined make them a favorite fowl.

* * *

The head adjuncts of the White Plymouth Rock should be prevented from any tendency to coarseness. The comb should be kept within the limit of medium size and the over-long tails should be reduced in size by careful breeding. Close attention here will add finish without detracting from any valuable qualities. In addition to these they should be held to their present qualities as egg-producers and might be improved upon both in number and size of eggs, for in this respect, to a considerable extent, lays their future standing.

✓

The Hagerstown Show. The report of the late Hagerstown Show was intended for this issue of THE FEATHER, but owing to the delay in receiving the awards of the winners it was impossible to use the same in this number. We will promise a lively report in the December number. It is well to remark that the last show was up to the high standard of past events, and we believe in many points exceeded all others. That this is a great show one only has to go to be convinced, and the winners are, indeed, birds of much merit.

✓

The Coming Season. From all points comes the encouraging news of an unprecedented interest in poultry topics. Breeders generally are convinced of the prosperity of the times by the large number of orders they are receiving for stock in advance of the season. This is encouraging. In this happy state of affairs we wish to call the attention of breeders to the advertising columns of THE FEATHER, as a medium for disposing of their stock and eggs. The guaranteed circulation of THE FEATHER is 10,000 copies a month, and the advertising rate is very low for the circulation. Our new discount card is unequalled by any other paper of the same standing and circulation as THE FEATHER. More and better inducements are offered to advertisers than can be found elsewhere. The readers of THE FEATHER are the very best, they appreciate the

Fifty Pens of this Season's Breeding Stock For Sale.

In quantities to suit purchasers. Hundreds of cockerels and pullets after Sept. 15; farm grown, with all wants supplied to produce the finest possible stock. Special prices on trios and breeding-pens; and **REMEMBER**, my stock is line-bred since 1888 for **RESULTS**—32-page descriptive catalogue free. Winners wherever shown—New York, Boston, Chicago, Hagerstown, Cincinnati, Providence, Worcester, Hartford, New Haven, etc.

S. C. White Leghorns, S. C. Black Minorcas, Barred Rocks, White Rocks,
White Wyandottes, Light Brahmas.

ELM POULTRY YARDS, Hartford, Conn.

STATE AGENT FOR THE STAR INCUBATORS.

value of good stock and are willing to pay for same. These results are attested by the regular patrons of our columns, and the flattering testimonials on our files are abundant proof that **THE FEATHER** pays its advertisers. If you are interested in the advertising question you should write without delay for our new discount-card.

The Clashing Dates.

It is to be regretted that the dates of the New York and Boston Shows should conflict. This unfortunate state of affairs should be avoided if possible, and the management of the two shows should strive a little harder to come to an understanding, other than the published correspondence that is going the rounds of the poultry press. This "airing" of the subject is too much like being everybody's business in general and nobody's business in particular. The principal question is which of the two can or will give way. The fact that Boston set its date before the announcement of those of New York, would, under the rule, entitle it to the priority of date. But, then, the atmosphere in the present case is of a somewhat different character, and should, with reason, be dealt with differently. It is a known fact that New York is obliged to accept the dates the Madison Square Garden Company assigns them, and they have no other choice. Such being the case, they must hold their show at that time or not at all. Now, as to Boston's exact position in the matter we do not know, but express the hope that a settlement may be arranged to the satisfaction of the exhibitors as well as themselves. These two shows could undoubtedly be held at the same time, with success to each, but then it would not be so great a success as might be wished for.

Make a Settled Type.

Great possibilities were in store for the Rhode Island Reds. They would have become much more popular than they are had their advocates been more particular in improving their quality rather than in pushing their sale to the general public. At present they are very unsatisfactory as a fowl, and they can not be depended upon to reproduce their kind to a certainty. A settled type and color should be absolute. Were the Pea-comb variety selected as being the true breed, it would insure for them a better future. The black stripe in neck of both male and female should be demanded. This would give them a distinctive characteristic which could be guided into beauty of form and color, and result in making them very popular. Above all things the object should be to have a true breeding fowl rather than a patronage, sure to be disappointed in them otherwise. It is pretty certain that the energy and push of the club members could make of the Rhode Island Reds a true breeding fowl, but, unfortunately for the best interests of the breed and breeder, great controversy has arisen

among them in regard to the Standard description. Many pages are sent forth, not for the best interests of the breed, but to uphold the one of many kinds that is the preference of the individual writer. This makes the breed less popular, as the public is made so familiar with their shortcomings by the contradictory articles published.

Attention to Quality.

More attention to the quality of fowls which we have rather than to a production of many new varieties, is what is needed. There are now as many new breeds and varieties as the fanciers of the world can complete in the coming fifty years. If the entire attention of the fancy were given to perfecting those breeds and varieties we now have, fifty years hence would find them still incomplete. Of course, it is foolish to write or talk against the ambition of those who love to create new breeds, at the same time national pride should spur us forward to prevent our English cousins from returning to us our own productions in a better finished state than we ourselves have them. We have some of us gained the notion that we have the best of everything. This might be the case were we to take the pains toward having the best. As it is, our careless ways of handling and preparing for exhibition keep us back. Even now we hear many of our fanciers say, "Were it not for the Canadian breeders we would show at the Pan-American," thus acknowledging their better methods and care in showing their stock.

A CLUB OF FOUR.

To increase the circulation of THE FEATHER more rapidly, and as an extra inducement to begin immediately, we have determined to give a club of four yearly subscriptions to THE FEATHER for \$1. This offer is limited to December 1st, and those desiring to take advantage of same should do so at once.

Upon receipt of this Coupon and One Dollar in cash, together with four names, we will send THE FEATHER to each of the four names for one full year. This rate is just one-half the regular subscription price to THE FEATHER, and so liberal an inducement might never be given again. If you are already a subscriber, get three of your friends to subscribe with you at twenty-five cents each, and we will extend your subscription one year from date of expiration of old subscription. Do not send stamps. Make all remittances payable to

Geo. E. Howard & Co.,

305 Tenth Street N. W.,

Washington, D. C.

Glassified Advertisements

Fully prepaid advertisements of twenty-five words or less inserted under this heading at the following rates:

One time.....	\$.50
Three times.....	1.00
Six times.....	2.00
One year.....	3.50

READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 2 cents each for one insertion, or 1½ cent each for each insertion when run three times or more. Initials and figures count as single words.

PLYMOUTH ROCKS

"PARALLEL-BAR" ROCKS. Eggs, \$2 per 13; \$8, per 100. Gardner, Thompson, Bradley, and Montauk Stock. Illustrated circular. H. T. BROWN, Box 471 B, White Plains, N. Y.

BUFF PLY. ROCKS.—Eggs, \$2 per setting, from the best pen in the South. My prize-winning hens and pullets at Washington, Hamilton, Rockville, and Laurel, mated with a grand cockerel purchased from J. D. Wilson. JOHN H. JANNEY, Brighton, Md.

EXHIBITION BARRED ROCKS. Stock direct from Thompson, Miles, and Gardner. Eggs from my prize-winners, \$2 per 13. E. B. LEEK, Amagansett, L. I., N. Y.

AT ELMIRA, Dec. 1899, and Nov. 1900, on Barred Rocks we won 8 firsts, 7 seconds, and 5 thirds. Choice breeding stock at \$2 up. Eggs, \$2 per setting. KRAFT BROS., Box 536, Hornellsville, N. Y.

NOYES' BUFF ROCKS win wherever shown. No more eggs. Stock for sale at bargains. Address, P. W. NOYES, Quaker Hill, Conn.

BARRED P. ROCKS.—A choice lot of one-year-old hens, \$1 to \$2 each. Plenty of young stock of gilt edge quality now growing or free range for sale after September 1st. CRYSTAL FARM, Wm. H. Cyphers, Washington, N. J.

FOR SALE.—My entire stock of White Plymouth Rocks, including first-prize cock, second breeding-pen, third cockerel, Ohio State Poultry Show, 1901. I. F. SCHOTT, New Pittsburgh, Ohio.

ABSOLUTELY Pure Barred Plymouth Rocks only. Eggs from best matings, \$1 per 15. Satisfaction guaranteed. W. O. FETERS, Avenel, Montgomery Co., Md.

MRS. C. W. HARRINGTON, Harford Mills, N. Y., offers her entire stock of Buff Rocks (Burdick's Nuggets), 25 choice breeding birds and 50 March chicks at bargain prices.

BARRED ROCKS EXCLUSIVELY. (Ring et strain). Birds of our breeding the past season won at Cortland, Syracuse, Dayton, Fall River, and West Brookfield. 50 one-year-old breeding hens. 400 choice exhibition and breeding pullets and cockerels at right prices. We guarantee satisfaction. H. E. KIPP, Red-Hook-on-Hudson, N. Y.

BARRED ROCKS (Hawkins, Thompson). White Rocks (Hawkins). Choice breeding cockerels a specialty. Also Chester White Pigs and Collie Puppies. LYON & SONS, Spring Hill, Pa.

BUFF PLYMOUTH ROCKS that are buff to the skin. Cockerels, \$3 and up; pullets, \$2. Write your wants. ARTHUR H. BOLTON, Ashuelot, N. H.

OAKGROVE POULTRY YARDS.—Barred, White, and Buff Plymouth Rocks. Young stock for sale from prize-winners. Cockerels, \$1 each; 6 for \$5. Pullets, 75 cts. each; 12 for \$8. Also a few choice Pekin Ducks and Toulouse Geese for sale. MRS. R. P. HINES, Olney, Md.

BUFF ROCKS EXCLUSIVELY that are Buff Rocks, not Rhode Island Reds. 8 years' experience breeding. 50 selected cockerels; also a limited number of pullets. A. A. GROFF, Leiderachville, Penn'a.

150 MAY HATCHED BARRED Plymouth Rock and White Wyandotte cockerels for sale cheap if taken at once. Stock fine. E. JOHNSON, Dolington, Bucks Co., Pa.

BARRED AND WHITE PLY. ROCKS from the best eastern strains. Some extra-fine breeding cockerels for sale at \$2 and \$3 each. We guarantee satisfaction. BRIGGS BROS., Box 75, Centerville, R. I.

STOP, look, and listen to what I say! I breed good Barred Rock cockerels and sell them reasonably. WM. B. WISLER, Pine Iron Works, Pa.

BARRED PLYMOUTH ROCKS Exclusively for 12 years. Great winter layers. Proper shape, size, and color. Old and young stock at fair prices. Satisfaction guaranteed. F. S. WEINHOLD, Denver, Pa.

50 PROMISING BUFF ROCK COCKERELS \$1 each. No disqualifications whatever. Nugget strain. Write now for description. SPRING RUN POULTRY FARM, Washington, N. J.

EXHIBITION BARRED PLY. ROCKS. 200 show and fancy breeders for sale. My pullets are from a line that has won more prizes at New York in the last 7 years than all others combined. My cockerels for good size, shape, narrow blue bars, bay eyes, and yellow points can't be beat in America. If you want show birds and fancy breeders one-half cheaper than you can get them elsewhere, write me to-day. S. L. HETRICK, Punxsatawney, Pa.

WE RAISE BARRED ROCKS exclusively. Fishers Island strain. Bred in line 12 years. Our business is raising broilers (from pure-bred stock). We have saved out 300 of the best cockerels and pullets from our spring and summer hatches, and will sell at \$2 and \$1.50, respectively. There isn't a bird in the lot that is not worth more than the price asked. First who order will get the best. However, we guarantee to give satisfaction or refund the money. Try us. "K. POULTRY YARDS," Tariffville, Conn.

LEGHORNS

50c. per doz.; \$3.50 per 100—Wyckoff strain, White Leghorn eggs. New illustrated photo circular free. New plans, new methods. BISHOP'S POULTRY FARM, Box 38, Cheshire, Conn.

PRIZE-WINNING S. C. Brown Leghorns. 10 prizes on 5 entries at Rochester, 1901. Three 1sts, four 5ths, and five specials. Fine stock score into the 90's for sale cheap. Eggs, \$1 per setting. FRANK G. RICE, 9 West Avenue, Dansville, N. Y.

PLEASANT VIEW POULTRY YARDS.—Breeders of Rose Comb Brown Leghorns that are winners at all the leading shows. 15 good breeding cockerels for sale at \$2.50 each. Orders booked now for eggs for hatching, \$1 per 13. Address, J. B. HOFFMAN, Mgr., Sanatoga, Pa. W. G. FRONHEISER, Prop., Pottstown, Pa.

S. C. BUFF AND WHITE LEGHORNS. Some very fine cockerels for sale \$1 to \$5 each. Eggs in season, \$1 per 13; \$2 per 30. PINE GROVE POULTRY YARDS, Jay, Essex Co., N. Y.

KEYSTONE POULTRY FARM.—Breeders of Rose and Single Comb White Leghorns that are winners at all the leading shows. 16 good June-hatched cockerels for sale at \$1.50 each. A. C. NESTER, Pottstown, Pa.

NOT THE CHEAP KIND. Single Comb White Leghorns. April cockerels \$1 each. No culls. Lack of room reason for low price. L. M. WADE, Worcester, N. Y.

S. C. BROWN LEGHORNS for sale. Can win in good company. Early hatched, well striped in saddle and hackle. WM. QUIGLEY, 3618 Market St., Philadelphia, Pa.

MY SPECIALTIES are Single Comb White Leghorns and Buff Plymouth Rocks. Cockerels now ready. Good stock and reasonable prices is my motto. Write. T. D. SCHOFIELD, Woodstock, N. H.

RHODES WILL SELL YOU S. C. White Leghorns, all you want, 75c. to \$5. 300 head to select from. CHRIS. L. RHODES, Wolf Island, Mo.

SINGLE COMB BROWN LEGHORNS. Winning 1900: Hagerstown, Rockville, Laurel, Md.; Hamilton, Va. 7 firsts, 7 seconds, 7 thirds, 4 fourths. Grand Leghorn Silver Cup at Hamilton for best display. Eggs, \$2 per 15; \$3 per 45. Stock for sale. BERWYN POULTRY ASSOCIATION, J. Fred. Keefauver, Sec'y, Berwyn, Md.

E. N. MORRIS, Fawn Grove, Pa., S. C. Brown Leghorn specialist, has 30 pullets, 25 cockerels for sale. \$3 to \$10 each.

ROSE COMB LEGHORN COCKERELS for sale. Will win at the leading shows. W. C. VALENTINE, 524 Fulton St., Jamaica, N. Y.

SILVER SPRAY POULTRY FARM.—Breeder of S. C. White Leghorns and White Wyandottes. Eggs and stock for sale in season. Eggs, \$2 per 15; \$3.50 per 30. Satisfaction guaranteed. JOHN M. YERGER, Gilbertsville, Pa.

SINGLE COMB WHITE LEGHORNS. Same breeding won 1st cock; 1st, 2d pullets, Lynn, 1900. Cockerels or pullets, \$2 each; trios, \$5. MRS. ARTHUR NUNAN, Cape Porpoise, Me.

BRIGHT'S (Grove Hill) STRAIN SINGLE Comb Brown Leghorns. First premium on every entry at Virginia State Show, Norfolk, 1900. Fine-bred cockerels that show that much-desired stripe in both hackle and saddle, also a few choice females. Eggs in season, \$2 per setting. Satisfaction guaranteed. For further information address, JAS. A. DAVIS, Portsmouth, Va.

WYANDOTTES

SHOEMAKER is breeding White Wyandottes that are A. No. 1, and has a good foundation from the best breeders for both fancy and utility and some of the stay-white kind. No hens or pullets for sale. Will have some cockerels later at from \$1.50 to \$5 each. W. F. SHOEMAKER, Laceyville, Pa.

STILL ON TOP. JESSE A. MOON'S ribbon-winning Golden Wyandottes are always on top. 15 ribbons at the 1901 New York Show. Eggs, \$5 per setting. JESSE A. MOON, New London, Conn.

EGGS If you want "Thompson's" Barred Rocks, "Mattison's" Buff Wyandottes, "Hawkins" Silver Wyandottes, Buff Leghorns that are buff, write for our Poultry Booklet. Eggs, \$2 per 15; \$3.50 per 30. Pekin Ducks, "Rankin's," 10 eggs for \$1.25. J. T. DEW & SON, Summerfield, O.

IF YOU WANT SCRUBS, don't write me. I breed and sell thoroughbred Silver Laced Wyandottes only. Eggs from high-scoring winners. Surplus stock all gone for this season. J. M. HAMLIN, Highlawn Farm, Vienna, Fairfax Co., Va.

BUFF WYANDOTTES EXCLUSIVELY since 1894. Some fine young stock that are Buff, and the proper shade, for sale at reasonable prices. American Buff Wyandotte Club Member. W. P. PRATT, Chatham, N. Y.

WHITE WYANDOTTES.—A choice lot of one-year-old-hens, \$1 to \$2 each. They are vigorous and up to date. Plenty of young stock of gilt edge quality, now growing on free range, for sale after September 1. CRYSTAL FARM, Wm. H. Cyphers, Washington, N. J.

SILVER AND WHITE WYANDOTTE breeders in pairs, trios, or pens, way below value, to make room. Young in Sept., \$1 up. Stamp appreciated. EXTRA—I will give a year's subscription to The Feather on all orders containing male, for each \$5 dollars worth ordered. MRS. DENTON COLE, Winwood, Wayne Co., Pa.

BUFF WYANDOTTE BARGAINS.—5 grand cock birds and 25 hens. Many winners in pen. April chicks, \$12 per dozen; May chicks, \$8 per dozen, as long as they last. JAS. M. GILBERT, Box 413, Bethel, Conn.

FINE WHITE WYANDOTTES and Buff Plymouth Rocks, \$1 each. Snow-white Wyandotte and Buff Plymouth Rock cocks, \$3 each. W. H. CLEMENS, Saginaw, Pa.

WHITE Wyandottes, snow white, blocky, vigorous, free range youngsters. Show record since '96. Also yearling breeders and a few Buff Orpingtons. Bargains. Circular. CHAS. NIXON, Box 32, Washington, N. J.

WHITE WYANDOTTES EXCLUSIVELY, Hunter, Duston, and Keller strains. Also some of A. C. Hawkins direct; large birds, heavy layers, pure white. After Oct. 15, pullets, \$1.50 to \$2; cockerels, \$2 and \$3; trios, \$5. WM. BURCHALL, JR., St. Denis P. O., Md.

WHITE WYANDOTTES. A very select lot of birds for sale, old and young. Strong and vigorous layers as well as winners. If you wish something good, write me. Agent for the Reliable Incubators and Brooders. D. LINCOLN ORR, Orr's Mills, N. Y.

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Have the best system of heating and ventilating in use anywhere. Send 4 cents in stamps for 1901 catalogue. **M. O. SHERER Box 7, Louisville, O.**

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B.B.B. HENS LAY!
THE BEST THING ON EARTH!

D. W. ROMAINE,
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Boiled Beef and Bone
Is the greatest of all Egg Producers
It takes the place of insect life for hens and chicks. It contains the nutritious elements found in meat. It fills the egg-basket and makes chicks grow. It prevents constipation, scouring and leg-weakness in chicks.
B.B.B. Is guaranteed cheaper than meat, better than scraps and safer than medicine. It will make hens lay more eggs and keep them in better health than any other food or condiment. Sample Free.
50 lbs. \$1.25. 100 lbs. \$2.25.
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SPECIAL NOTICE

NOTHING UNDER THE SUN WILL MAKE HENS LAY

...and keep them in healthy condition all the year round like...

Banner Egg Food and Tonic



It starts the pullets laying, and will keep them at it all through the winter, when eggs are very scarce.

We are having our Sixth Annual Sale during November and have some special inducements to offer those who have never tried it, as well as old customers, who know a good thing when they see it.

During this sale, we will sell a 1-lb. box for 15c. or 7—1-lb. boxes for \$1.00. The regular price is 1-lb. box 25c. or 5—1-lb. boxes \$1.00, so it will be to your advantage to order this at the reduced price.

In addition to the reduction in price, we will give you with each order for 7—1-lb. boxes, one of "Kuhn's Egg Record and Account Books," which retail at 25c. each, or to those who order \$2.00 worth, or 14—1-lb. boxes, we will give a book, which every poultryman needs, entitled "Little Chicks," which retails for 50c. each. It contains special articles by M. K. Boyer, P. H. Jacobs, G. W. Nones, W. W. Kulp, A. G. Duston, A. F. Cooper, M. V. Norys, and other well-known poultrymen. The information it contains is worth \$100 to any breeder.

Remember these special prices and offers are for the month of November Only, and no orders will be filled after November 30th, at the above reduced prices.

Send your orders in at once, and we will fill orders as soon as received.

N. B. If sent by mail, add 20c. for each box for postage, and the 7 boxes are cheaper by express, purchaser paying all charges.

Our large Poultry Supply Catalogue mailed free.

Excelsior Wire and Poultry Supply Co., Dept.

W. V. RUSS, Proprietor,

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Conkey's Roup Cure is the only positively known remedy to cure Roup in all its forms as long as the fowl can see to drink. Simply put the cure in drinking-water, and the fowl takes its own medicine. For Canker, especially in pigeons, this cure excels all others. Our 50c. package makes 25 gallons of medicine. Directions with every package. If it fails to cure, we refund the money. Postpaid, small size, 50c.; large size, \$1.

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Just what is needed for chicks "start to finish" nothing equals

FIDELITY FOOD

For Young Chicks. (Fed Dry.)

A well balanced ration insuring perfect health and rapid growth. Used universally by leading fanciers and practical poultry men.

25 lbs. \$1.25, 50 lbs. \$2.00, per bbl. \$3.50 per 100 lbs.

For maximum egg production, keeping birds in splendid condition and carrying them well through their moult, Fidelity Food for Fowls excels everything, being the choicest combination known of finest grains seeds, legumes and protein products. For effective and rapid fattening use Fidelity Fattening Food producing delicate and exquisite flavor in table poultry. In bbls. of 200 lbs. \$5.00 each.

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Are the Best Products of the Earth.

STAR INCUBATORS,	STAR CHOLERA CURE (for old fowls,)
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Star Products Never Had an Equal and Never Will.

Mr. E. W. Twining, Yardley, Pa., buys Star Cholera Cure (for chicks) in twenty-five pound pails. Chick food is used by the ton, by some of the large plants. Catalogue and circulars free.

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At Malden, Mass., Dec. 4-7, in strong competition, but strengthen my reputation for breeding a quality of Barred Plymouth Rocks which can not be excelled. I won 1st and 2d on cocks; 1st and 2d on cockerels; 1st, 2d, and 3d on pullets; 3d on hen; 1st and 2d on pens. I have some splendid specimens of Barred Beauties for breeding stock at \$4 and upwards. Eggs, \$2 per setting; \$8 per 100. Circular free. J. W. RANDALL, Prop., Meadowview Poultry Yards, 403 Salem St., Malden, Mass.

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Also Buff Cochins, White Japanese and Black Breasted Red Game Bantams. Toulouse Geese and Pekin Ducks. Fowls and Eggs For Sale. Thoroughbred Jersey Cattle.

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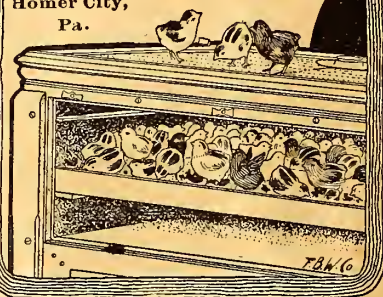
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The BANNER ROUP CURE is guaranteed to cure Roup and Colds in all stages, also Canker in Pigeons. It is very easily administered, simply put in the drinking-water, and the fowls take their own medicine.



We guarantee this to cure or refund you your money. Follow directions on box and you will never lose a bird. Prices 50c. and \$1 per box Postpaid. A 50c. package makes 25 gallons and the \$1 box makes 75 gallons of medicine. This is the cheapest and best Roup Cure in the market. Manufactured only by

EXCELSIOR WIRE & POULTRY SUPPLY CO.,

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BUFF PLYMOUTH ROCKS A SPECIALTY.

Prize-winners at the largest shows. Stock for sale in yearling cocks and hens, early-hatched cockerels and pullets. If you are looking for A No. 1 breeders write to

JAMES H. CORWITH, Post Office, Water Mill, Suffolk County, N. Y.

Telephone Call, 2 F., Water Mill.

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New York and Boston prize-winning blood and birds. B. Langshans, B. Minorcas, L. Brahmas, S. C. B. Leghorns, B. P. Rocks—double matings. Imperial Pekin and Indian Runner Ducks. 400 acres of grass and shade. 2,000 birds. One of the largest and best equipped establishments in existence—Low prices. Large, artistic, and descriptive catalogue free.

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BLACK LANGSHANS...

At N. Y. City, 1900, 1st cock, 1st, 4th, and 5th cockerels; 1st, 2d, and 4th hens; 1st, 2d, and 3d pullets; 1st, 2d, and 3d exhibition-yards. Fine exhibition and breeding stock for sale.

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In a Victor Incubator always yields a vigorous chick. Simplest, most reliable, cheapest, first-class hatcher is the **VICTOR INCUBATOR**. Thousands in use; we pay freight, catalogue 6 cents. **GEO. ERTLE CO.,** Quincy, Ill.

A Happy New Year

To the birds at the Home of the S. C. W. Leghorn. At the Clinton, Mass., fall Show they won all the firsts, and at the late Fitchburg, Mass., Show, on an entry of 14 birds, they won 5 firsts, 2 seconds, 5 thirds, and 11 specials; first cock; first, second, and third cockerels; tie on first hen; first and second pullets, score 95½ and 94½; pen score, 187½. This won the special on the highest bird in the show (Bantams excluded), special on highest-scoring pen in the show, special on the highest-scoring Leghorn pullet in the show; also the highest-scoring pen in the Mediterranean class of 31 S. C. W. Leghorns, 30 S. and R. C. Brown Leghorns, and 10 Buff Leghorns, and 5 R. C. W. Leghorns and 14 Black Minorcas, won three specials on first pullet, special on the best cockerel's head, head-points to count. Grand special on the highest pen of Leghorns, any variety; 2 grand specials on the highest-scoring pen in the Mediterranean class with 90 birds in competition—the best that could be found—H. B. May, Judge. At Boston, 2d cock, 3d pen, 4th pullet.

My birds were bred from a pen of birds that I imported last spring—both male and females. Eggs for setting from this stock: 1 setting, \$2; 2 settings, \$3.50; 3 settings, \$5; incubator eggs from good, old stock, mated to some of these best young males.

All boxes are made on purpose for me, and out of promptly filled, and all inquiries cheerfully answered. Circular free.

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ROCKS: Buff and White.
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BROWN LEGHORN SPECIALIST,
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NEW YORK AND BOSTON WINNERS
Eggs for Hatching, \$2 per 13.

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This Spring Lever Poultry Punch is the best device made for marking your birds. Every Poultryman should have one.

We will give it
FREE
To Subscribers.

The leverage provided in this device for marking poultry enables one to punch with perfect ease any kind or number of webs, and to do this with the direct-pressure punches would be a tiresome task, and in the case of a hard, tough web, would be impossible unless both hands were used. The



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EVERY BOTTLE GUARANTEED.

Cures—Prevents—

Cholera, Diarrhea and All Bowel Disorders.

The Russ Chicken Cholera Cure has demonstrated its superiority over all other remedies as a Cure and a Preventive of Cholera, Diarrhea, in fact all bowel diseases that poultry are subject to. It is endorsed by the highest and best-known poultry and pigeon judges, fanciers, and authorities in the United States. When The Russ Chicken Cholera Cure is once used, none other is ever substituted. Experience has so well established its good qualities that we do not deem it necessary to dwell upon its merits.

All we ask is a fair and impartial trial, after which we know you will be a lifelong user of **THE RUSS**.

PRICE, 25 CENTS PER BOTTLE.

On account of the postal laws, our Cholera Cure being a liquid, it can not be sent by mail.

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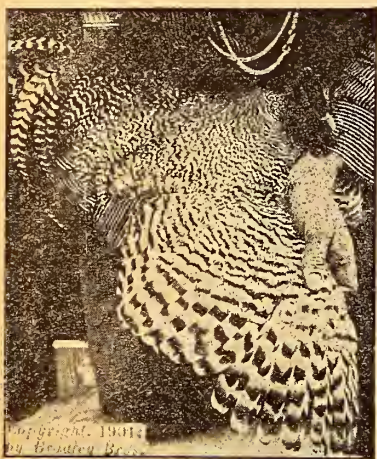
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Richest Producing Line in Existence,



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Seven First Prizes at recent National Shows have been won by Sons, Brothers, and Consins of "Grandson's Brother 5th," either singly or at head of pen. All bred and raised by us.

In First-Prize New York Males. CHAMPIONS for 12 years.

Barred Plymouth Rocks. More First Prizes at the last 12 New York Shows have been won by birds we bred and raised than any other exhibitor has won on ANY BREEDING.

Nearly Three Times as Many First Prizes on Males at these shows have been won by birds we bred and raised, than by any other exhibitor on ANY STOCK.

We Have Liberty to Publish All Facts Given in This Advertisement.

FEMALES. \$525 was recently refused by us for a "GRANDSON'S BROTHER 5th" cockerel and 4 "LEE BELLE" pullets. All our breeding.

Six Females of OUR BREEDING were winners of First Places at recent National Shows, and 15 of Our Breeding have been winners of First Places at New York Shows.

The HIGHEST PRICE EVER GIVEN in this country, to our knowledge, for a Barred Plymouth Rock, either sex, was recently received for one of our "LEE BELLE" females.

SHOW BIRDS as heretofore, suitable for any competition. Also a grand lot of medium-priced Exhibition Birds. Hot ones for the money. Carefully mated breeding-yards of our best blood at very moderate prices. Special rates on poultry in large numbers. Large circular of "AMERICA'S BEST-ILLUSTRATED," Free.

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Box 900, Lee, Mass.

Madison Square Garden Winners.



S. C. Brown Leghorns, cock first, hens 2d, 3d and 4th. Cockerel 3d, pullet 5th. Won in different years. I have the finest lot of cockerels and pullet-bred cockerels I ever had. They will be large and out of the finest stock. **Rose C. Browns** out of my great winning strain, New York and Boston. Single and **Rose C. White Leghorns** out of strains that have won in largest shows, large and white. White Wyandottes of **Duston** strain. We have won wherever shown, and customers won in shows like Pittsburgh, and east and west. **Barred Rocks** (Bradley,) out cockerel score 93½ in show, and of the finest pullet strain also. Light Brahmas, Buff Wyandottes of finest strain.

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BARGAINS IN BREEDING HENS to make room for growing chicks. Fowls successfully exported to all parts of the world. **LARGE CATALOGUE FREE.** 68-page book, "Minorcas All Varieties," history, mating, fitting for show, &c., fully illustrated, 25 cts., postpaid.

My Minorcas have never lost a special for large size, and have won more prizes in strong competition at New York, Boston, Washington, and other leading shows, than any other four strains combined, which proves the quality of stock I sell.

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Trethaway's Anthracite Black Minorcas

Beat all records at New York for the last four years, winning more premiums than any two strains. Winnings at New York, 1901, 1st cock, 1st, 2d, and 3d cockerels, 1st and 4th pullets, 2d hen, and 2d pen; the \$250 club trophy 1899, 1900, and 1901; Board of Directors' cup for best five males; American Fanciers' cup for best cockerel and pullet, Poultry Monthly's special for best cock and hen, and six other specials, in competition with the best in America. A few grand cockerels for sale. Eggs from my winners, \$3 per 13; \$5 per 26. Satisfaction guaranteed.

ARTHUR TRETHAWAY, Wilkes Barre, Pa.

WELLES' Invincible Strain of

BARRED P. ROCKS

That have been bred for years in line of the New York winners,
Never fail to win in the strongest competition. . . .

Record at Madison Square Garden, N. Y., 1899,

1st and 2d hens,
1st and 2d cocks,
1st, 2d, and 3d pullets,
2d, 3d, 4th, and 5th cockerels,
1st, 2d, and 4th breeding-pens,
AND ALL SPECIALS,

Including the
..President's Cup..

Value \$100,
FOR BEST

Cock, Hen, Cockerel, and Pullet.
ALSO THE

SILVER CHALLENGE TROPHY CUP, VALUE \$100,

For Best Cock, Hen, Cockerel, Pullet, and Yard,
and

GOLD SPECIAL FOR BEST BIRD SHOWN IN 1899.

This (to say nothing of my past winnings at New York), is a record which has never been equalled or approached by any breeder, and stands good to-day. A grand lot of birds for sale for the fall and winter shows. Also choice breeders. Circular free.

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Box P, Stratford, Conn.

Many Winners

For fall and winter shows are among the birds we offer in Barred and Buff P. Rocks, Buff and White Wyandottes, and Pekin Ducks.

We can spare—

25 cocks.....@.....	\$3 upwards.
200 hens.....@.....	1 50
300 cockerels.....@.....	3
200 ducks.....@.....	1
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The cockerels were selected from over 1000 bred from our winners, and are March, April, and May hatch. They will make splendid breeding and show birds.

We guarantee every bird to please or they may be returned at our expense and we will cheerfully refund your money.

Write us your wants and receive free illustrated catalogue of

Millville Poultry Farm Co.,

Box H, Millville, N. J.

M. F. DELANO, Pres. and Mgr.

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LINE-BRED LAYERS.

BIG REDUCTION ON EGGS.

Anconas, imported matings, eggs, \$3 per 15; \$5 per 30.
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S. C. Brown Leghorns, \$1 per 15 eggs.
S. C. Buff Leghorns, \$1.25 per 15 eggs.
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Silver Spangled Hamburgs, \$1 per 15 eggs.

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HOMER CITY POULTRY FARM,
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Every experienced poultry man or woman will tell you that there would be no trouble about poultry success if they could only be insured against the ravages of mites, lice, etc. Our

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ZINCURE prevents all forms of decay, and makes wood last three times longer than if unpainted. Gives a handsome, tasty color; lasts five times as long as linseed oil paint, and is cheaper. Equally good for pig pens, sheep barns, cow barns, dairy buildings, stock barns, etc. If you can't get it from your dealer, write us direct for circulars and prices.

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Are no experiment, having been carefully selected and bred for over twenty years, with results that fully justify the claim that they are the greatest laying strain of Single Comb White Leghorns in existence. No labor or expense has been spared in building up and perfecting this strain, and while the production of large, pure-white, fancy market eggs has been the main object, standard qualities have not been neglected. They are large, vigorous, active, and handsome. Good winter layers, and keep at it all summer. Our birds are unexcelled for introducing new blood, or as foundation stock. EGGS FOR HATCHING FROM FINEST STOCK. \$2 per 15, \$3.50 per 30, \$5 per 50, \$6 per 60, \$8 per 100. Illustrated circular free.

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Minorca Poultry-Yards. Page's S. C. Black and White Minorcas and White Leghorns are unexcelled for large size and typical shape and are known the world over as the greatest laying strains. I positively guarantee satisfaction or your money refunded. Stock and eggs at all times. Circulars free. Mention The Feather. Address, H. D. PAGE, Ira, N. Y.

LEFFEL'S Unconquerable Barred Rocks

Always Win the Lion's Share Of Prizes.

If you do not believe it, SEND AND GET HIS CATALOGUE, and it will tell you who scored his birds. He stands in front, with highest scores by leading judges. I. K. Felch gave one of his cockerels score of 95 points, and wrote across score-card, "Every doubt given against this noble big fellow;" weight, 11 lbs. H. A. Bridge gave one of his birds score 95 points. B. N. Pierce cut one of his cockerels one-half in color. L. G. Jarvis, Guelph, Canada, scored 4 birds 94%. J. Y. Bicknell scored cockerel 94%. Charles McClave 93% scores of birds. I have exhibited 25 times in past 8 years and won 24 times on cockerel, and tied the other one score. Sharpe Butterfield scored 3 cockerels in one show 93%. Send for my catalogue and see my winnings and scores, and who scored them, and you will say I lead the procession in winnings. Elegant breeders in any number.

NEVER LOST ON BREEDING-PEN

in any score-card show, nor any pullet where they were weighed and weighed correctly. Eggs \$3 per setting. Only lost once on first cock. I won all prizes at Springfield, O., Aug. 21-24, 1900, all prizes offered. My strain won all prizes at Urbana, O., Aug. 14-17, 1900, this season making 30 times I have exhibited in 8 years. No breeder ever made such a record.

Ten Times I Won Every Money Prize Offered.

I have a grand lot of show birds for winter shows. They never fail to win for me, and they will win for my customers. Residence 363 South Fountain Ave. Farm one-half mile from city.

Eggs, \$3 per Setting. GEO. M. LEFFEL, Springfield, Ohio.

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We invite your criticism and maybe we can interest you.

Any information cheerfully given. For rates, map of Virginia and pamphlets, address

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I have some very fine young stock which are Buff throughout. No white or black in plumage (Arnold's strain). Price for cockerels \$1.25 to \$3. Pullets \$1 to \$2 each. Eggs in season. Single Comb Buff, \$1.50 per setting; Rose Comb Buff, \$3 per setting. A few Rose Comb cockerels to spare. Silver Sebright Bantams, \$3 per pair. Bantam eggs, \$1.50 per setting. Homing Pigeons. Satisfaction guaranteed. Write if you mean business.
G. W. MAURHOFF, Saxonburg, Pa.

Buff Cochins Bantams

AND

HOMING PIGEONS.

NO EGGS FOR SALE.

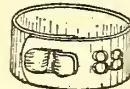
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1901.—
Adopted by all the Leading Specialty Clubs.
The official enameled bands are furnished by me at 4 cents or 45 cents per dozen with no initials numbered from one up. Aluminum Bands for pigeons and poultry, with year and number \$3 per 100, with year only \$1.50 per 100, with initials 25cts. per 100 letters. Send 2c. stamp for circular and sample band. Remittance must accompany order. THOMAS WILLETT,
202 Lawrence Street, Lowell, Mass.

IDEAL ALUMINUM LEG-BAND



Is the acknowledged leader. Firmest and most secure lock, quickly put on and guaranteed to stay on. Price post-paid 12 for 20c. 25 for 35c. 50 for 65c. 100 for \$1. All supply

dealers sell them.

3 samples and circular of Barred P. Rocks mailed for 5c.

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CRUSHED OYSTER SHELLS.

50c. per hundred, ground fine, 30c.; Bone, Grit, Scraps, Charcoal, Bone Cutters, etc. Send for reduced price list.

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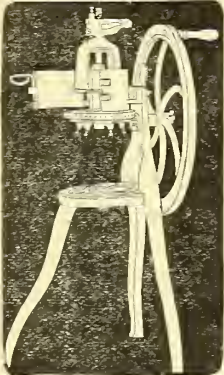
There are no Better

Of course you have heard of the famous Pine Tree Farm poultry and its prizes. Don't you want to introduce a little new blood into your flock? I have 23 varieties of land and water fowls and will Guarantee Satisfaction

with everything that I sell and ship. Eggs by the sitting or the hundred. Send for big free catalogue.

D. A. Mount, Jamesburg, N. J.
The Pine Tree Farm.

Millions For Eggs



The American people spend millions for eggs every month in the year. Are you getting your full share of all this money? Perhaps you would like a little more of it. You can double your egg profits by putting a

MANN'S 1902 Model BONE CUTTER

in your poultry yard. We say Mann's because the new Mann's is the cutter which will give satisfactory service in every way.

Read Our Broad Claims.

other machine (if not don't keep it) because it adapts itself automatically to the power operating it. A boy, a woman or a man can turn it with equal ease. You can set it to run as easy, to cut as fast or as slow, as coarse or as fine as you like. It cuts hard bones as easily as soft bones, because the self-governing feed adjusts itself to them without attention from the operator. The Mann's is easy to clean; just pull one latch and the working parts are all exposed. The Mann's makes more and better feed from a given quantity of bone than does any other make, because it cuts all the bone and all adhering meat and gristle, allowing none to escape to clog the machine, making no silvers to endanger the lives of your fowls. The Mann's special cylinder and cutting device do it. The Mann's cuts more rapidly than others, if not don't keep it. It's knives are in action all the time (not waving in the empty air half the time). The machine that never stalls. The Mann's has new design, open hopper, enlarged table, new device to control feed. Set it to suit any strength. Never clogs.

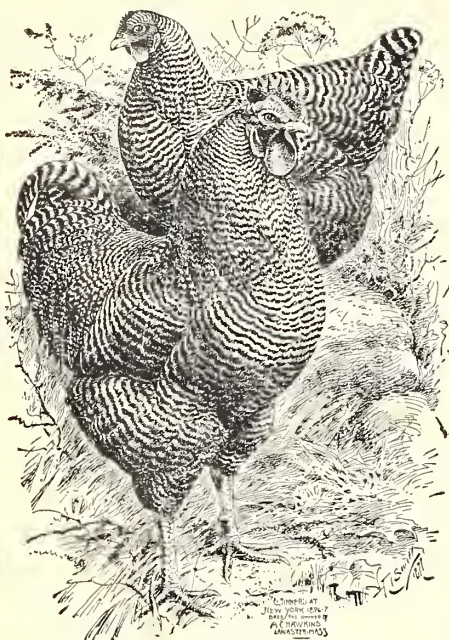
10 Days Free Trial. No money asked for until you prove our guarantee on your own premises, that our 1902 Model will cut any kind of bone, with all adhering meat and gristle, faster and easier and in better shape than any other type of bone cutter.

If you don't like it send it back at our expense. OUR NEW CATALOGUE explains the How and Why; it describes in detail all our late improvements. You'll be glad to get a copy—we'll be glad to send it.

F. W. MANN COMPANY,
Box 61, Milford, Mass.

Also manufacturers of Clover Cutters, Corn Shellers, Granite Crystal Grit, Automatic Swinging Feed Trays, Etc.





Winners at New York, from Life.

HAWKINS'

ROYAL BLUE STRAIN

PLYMOUTH ROCKS

BARRED, WHITE AND BUFF.

WYANDOTTES, SILVER WHITE AND BUFF.

EGGS FROM PRIZE MATINGS.

1 Sitting, \$5. 3 Sittings, \$10.
2 Sittings, \$8. 5 Sittings, \$15.
Per 100, \$20.00.

Have won more prizes at New York, Boston, Washington, and America's greatest shows than all others. My matings this season are the best I ever owned. * * * * *

At the Great National Show, WASHINGTON, D.C., in hot competition with over 300 birds of these varieties, the best that could be found regardless of price, I won 45 Regular and Special Prizes on 39 Entries, including First Prize on Breeding-Pen in each variety, Special for Best Display in the American Class, Special for Best Exhibit of Plymouth Rocks, Sweepstakes Special for Best Cockerel in the show (Bantams excluded), and this on my First Prize Barred P. Rock Cockerel. My winning White Wyandotte cock was pronounced by the judges to be the best they had ever seen. I won twice as many first prizes as all other exhibitors of these varieties. My BUFF ROCKS, at Boston, 1899, in hot competition, won more first and special prizes than all others. My customers are winning all over the country. If you want the BEST, write me. Hundreds of Choice Exhibition and Breeding Birds at Honest Prices. Catalogue of America's finest Plymouth Rocks and Wyandottes free.

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When We Were Last In Philadelphia

Do you remember the hottest Duck and Geese Show that ever was held in the States? Do you remember the two principal exhibitors, who divided the greatest amount of glory, ribbons, and cash and the utter darkness of did-not-get-there of the smaller fry? Yes, those days and records are history! No better ducks and geese anywhere; Millville and Exmoor bred and had quality, standard quality, others-guide-after quality. Alas! the pleasure to compete against so noble a foe as Millville is ours no more. Local conditions compelled them to sell.

Millville's Ducks and Geese are now grazing on Exmoor's Lawns and Meadows . . .

Will you profit by your opportunity? We cannot make up our mind to show, it would be a death-blow to the small fry. We will give our customers a chance to do the crowing after the show is over. We have the stock, the reputation, the trust, we may say, and still are ready to sell you at anti-trust prices. Are you going to show? If so let us supply you with birds that get there. Send for Bulletin No. 12 and get all particulars. A two-cent stamp brings it.

EXMOOR POULTRY FARMS,

E. A. WEIMER, Prop.

THEO F. JAGER, Supt. of Ducks and Geese.

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"Ringlets" Soar Still Higher.

At the Empire Show of the Nation—Madison Square Garden, N. Y., the World's Record of
E. B. Thompson's Barred Plymouth Rocks

4 Years in succession was the most remarkable ever achieved in the realm of poultry exhibitions. This record is by many points the highest ever accomplished in annals of the New York Show. Winning more than three times as many 1st prizes as any other exhibitor, and as many 1st prizes as all competitors combined. Besides, more than twice as many cups and specials as all, including the superb challenge trophy, value \$100, for best cock, cockerel, hen, pullet and exhibition-pen; \$100 sterling silver cup for finest exhibit; grand special prize sweepstakes cup, value \$100, presented by the President for best P. Rock cock, cockerel, hen, and pullet any variety. My clean sweep in 1898, of

1st, 2d, 3d, 4th, and 5th Prizes

on pullets has never been approached in Madison Square Garden, and stands alone and unequalled. The "Ringlet" world's record of 1st on exhibition-pen at New York 3 years in succession is the undisputed champion. With their 1900 record the "Ringlets" have won at New York a grand total of 77 prizes. 31 of these are 1st and specials, being 17 more first and special prizes than won by any competitor in the history of the show.

Grand Stock For Sale. 600 Breeding Cockerels—one of them will do you good. Show birds fit to win in the fastest company.

Richly illustrated 24-page catalogue on application. It is full of original illustrations of New York Winners from life. Choice Females in any number.

EGGS From Finest Exhibition Matings, 1 setting \$5; 2 settings \$9; 3 settings \$12; 4 settings \$15.

Winners of the President's \$100 Sweepstakes Cup for best cock, cockerel, hen, and pullet at New York.

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THE FEATHER



1901
CHRISTMAS
Geo. E. Howard & Co.

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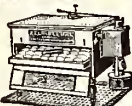
FINEST GRADES OF PRINTING.

OUR new plant is equipped with every modern device for doing fine, up-to-date *Printing and Engraving*, and we desire to call the attention of all poultrymen to this fact. Our list of cuts includes every variety of Standard-bred poultry, turkeys, ducks, and geese, and we do not make charge for use of same on your printing. This feature has proven a great benefit to our patrons, and enables them to have fine, illustrated printed material at the cost of ordinary work. We are making a specialty of printing poultrymen's letter-heads, note-heads, envelopes, shipping-tags, circulars, catalogues, folders, etc. Write for prices.

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High-Art Printers.

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IT ALL DEPENDS upon getting started right else. For the beginner, or the man who does not want to go in heavy, we have the **\$5 Reliable** Juvenile Incubators and Brooders. Equal in workmanship and result producing qualities to any of the larger machines. You'll want a copy of our **20th CENTURY POULTRY BOOK**. It is a hummer. Tells all about the 126 pens of thoroughbred poultry at the Reliable Poultry Farm, and how they are cared for. Sent anywhere for only 10 cents. Send at once before they are all gone.

RELIABLE INCUBATOR & BROODER CO., Box A5 Quincy, Illinois.





TO MAKE EGGS
and lots of them, the hen must be supplied the proper materials properly combined. Just here **RUST'S EGG PRODUCER** comes in. It is the one perfect egg food on the market. It contains all the elements in just the right proportions. It imparts vitality so that the eggs surely hatch and produce strong, lively chicks. It makes a hen healthy and keeps her up to her work and it costs only 20 cents a year to feed her with Rust's Egg Producer. Five sizes, 25c, 50c, etc., (if mailed, 41c and 94c). Rust's other poultry preparations are of equal merit. If your dealer does not have them send us his name and receive our booklet free. **Wm. Rust & Sons, Box 12, New Brunswick, N.J.**

WE MA WOODSTOCK

W. E. Mack,
West
Woodstock, Vt.
Well-Bred
White

EVERGREEN FARM,
White Wyandottes,
"Triumph Strain."

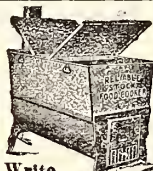
Fifteen years of careful breeding has produced a strain of fowls unequalled in practical qualities, and winners of the highest honors in the show-room. In Boston Show, 1901, I had only 4 birds in a hot class of 201, won 2d on cockerel, 3d on hen, 6th on cock, and two specials, including special for best-shaped cockerel. I breed and raise the birds I handle and exhibit. My breeding-yards for 1901 are composed of very choice birds; among them is the noted Stay-White cock, winner of 4th and special for whitest male, Boston, '99, 4th New York, '00, and 2d St. Louis, '01. Also "Triumph," winner of 2d and special for best-shaped cockerel, Boston, '01. Stock and eggs for sale.

The Perfect Hatcher.



200-egg Hatcher and Brooder combined \$10. 100-egg Hatcher \$6.00. 100-chick Brooder \$5. Barred Plymouth Rock fowls and eggs. None finer. Testimonials and illustrated circulars 2c.

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we know is made on right lines.
The Reliable

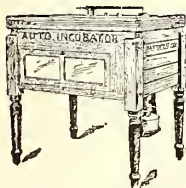
is a combined food cooker and water heater. The best of material, good workmen and experience make it the only one of its kind. 20 gal. \$5.00, 50 gal. \$14.00, 100 gal. \$16.00. Don't buy a food cooker until you have investigated this one.

Write for circular.

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THE "AUTO" INCUBATOR

...Is a first-class, reliable hatching machine. ...



It has a system of heating by double radiators, that secures and maintains an even temperature in all parts of egg-chamber. Its double-acting loop thermostat is said to be the best device yet invented to regulate the heat in hatching-chambers. Its system of protected ventilation, both inlet and outlet with-out slides or dampers or any other mechanical contrivance to check or regulate the air that passes through the egg-chamber, gives it positively automatic ventilation which settles all questions in regard to the moisture or no-moisture problems.

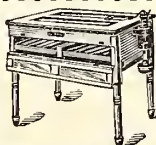
Send for catalogue and get all the facts.

AUTO INCUBATOR CO., Cos Cob, Conn.

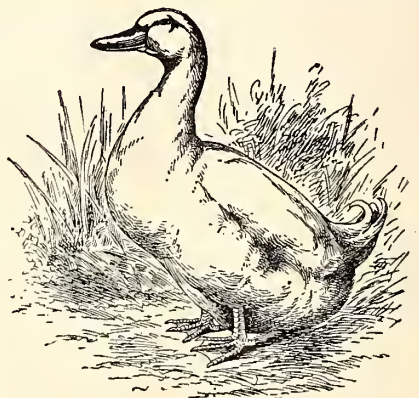
200-Egg Incubator \$12.80

The wonderful simplicity of the **Wooden Hen** and the greatly increased production forced by its immense sales, makes it possible to offer this perfect hatcher for \$12.80. Guaranteed to hatch as large a percentage of eggs as any other hatcher at any price. Self-regulating and fully guaranteed. Send for the free illustrated catalogue.

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Imperial Pekins
—AT—
Maple Farm Duck Yards.



2,500 breeding birds on hand, all carefully selected from many thousands. The largest and best birds on this continent. Birds not akin, from forty different yards. Eggs in season, fertility guaranteed. Order early to secure birds. My book "Natural and Artificial Duck Culture" with each order for birds or eggs. See what the Boston marketmen say about our birds. Send for illustrated catalogue. The Monarch Incubator still ahead, send for catalogue.

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Has won hundreds of prizes under scores of judges, in the hottest competition, all over the country, including Boston, New York, Toronto, Pittsburg, Hagerstown, and Washington on its famous strains of

Barred and White Plymouth Rocks, Cornish Indian Games, Pekin Ducks and Bronze Turkeys.

This season they are better than ever before and we can furnish single birds or mated pens whose breeding can not be excelled at fair prices. Medium-priced exhibition birds for the smaller shows and hot ones for the larger ones.

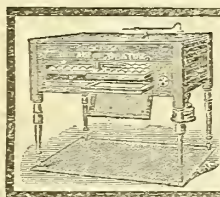
We are especially strong in Barred and White Rock and Indian Game males and in Turkeys, and can spare a few of our choice half-Bronze-half-Wild at very reasonable prices. A limited number of our fine deep-keel Pekin Ducks at a very low figure. Don't fail to get our new illustrated, descriptive catalogue free.

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Woodward's Pedigreed Line of BARRED PLYMOUTH ROCKS

Are winners; having fully demonstrated their superiority at Milford, N. H. the last two years, winning six out of seven first prizes competed for. Nashua, N. H., 1900, won 1st pen, 3d pullet, 3d cockerel; losing 1st and 2d pullet on weight alone. 50 yearling hens and 3 cocks for sale, of my season's breeders, reasonable. Write for prices. Satisfaction guaranteed.

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Behold The Hen Doth Lay An Egg.

Her part of the work is done, then we take care of that egg with the

Successful Incubators and Brooders,

turn it into a strong, vigorous, bread-winning chicken, that will work for a living around the farm yard. Here's something new in catalogues—5 different editions, in 5 different languages. English edition sent for 4 cents; others free. Covers the poultry question like a blanket.

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Write to nearest office. You will save time and money.

Black Minorcas, Partridge Cochins.

After a number of years of thorough study and judicious breeding of Black Minorcas and Partridge Cochins I have established a strain of these two kinds of pure-bred poultry that would please most any fancier. I do not claim to have the best on earth, although having had nearly twenty years' experience in breeding fancy poultry I do claim to know a good bird when I see one, and am, therefore, positive I can please those that are in search of good birds. I have a few cockerels of each variety for sale this season. I also have five pullets and three Barred P. Rock cockerels, pure E. B. Thompson strain, that will be sold cheap, if taken soon.

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STANDARD POULTRY CRIT OF AMERICA.

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White Quartz, 58 p. ct. Aluminum, 20 p. ct. Iron, 12 p. ct. Magnesium, 10 p. ct. DIGESTER. SHELL MAKER. YOLK MAKER. SHELL MAKER.

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To Bring the Chicks from the Eggs You Need THE UNIVERSAL HATCHER.

These machines are "universally" used, and give most excellent results. For years they have been the leaders, and their name is a guarantee of good faith. Their construction is perfect, and they are regulated like a watch—they never vary. Only the best material is used, which, combined with first-class workmanship, makes them the best put-up machines on the market. Our Brooders are just like our Hatchers, and none give less trouble, nor more perfect results than the Universal Hatchers and Brooders. Be sure you look into the merits of our machines before going further, and send for one of our fine illustrated catalogues—free. Address,

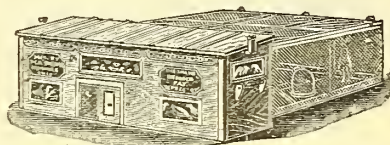
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ECLIPSE LEG BANDS
Made of polished aluminum.
Can't tarnish. Light. Easily put on. Secure as a padlock. Prices, postpaid, 20c per 12; 35c per 25; 61c per 50; \$1.00 per 100. Any size. Ask your supply dealer for them.

Climax Leg Bands
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for neatness, lightness, security, and durability. Thousands use and endorse them. Prices, postpaid, 25c per 12; 40c per 25; 75c per 50; \$1.35 per 100.

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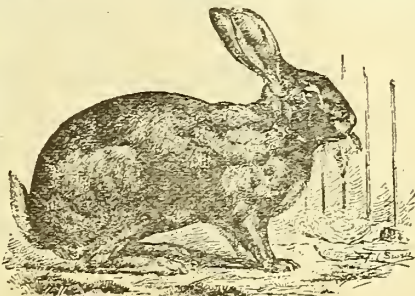
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Have the best system of Heating and Ventilating in use anywhere.

Send 4 cents in stamps for 1901 catalogue.

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Prize-Winning Belgian Hares



At the recent Philadelphia Show our hares won 14 prizes; at Boston, 20 prizes; at New York, 9 prizes; at Harrisburg, Pa., 24 prizes. Let us tell you about Champion **SUNRISE**, imported, the greatest buck in this country, and of our hundreds of other high-class hares, both for show and breeding purposes. Catalogue and information furnished on request.

The Elmwood Rabbitry,

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Hutches, 215 Highland Avenue.

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Richest Producing Line in Existence,



SON OF GRANDSON'S BROTHER 5TH.

Seven First Prizes at recent National Shows have been won by Sons, Brothers, and Cousins of "Grandson's Brother 5th," either singly or at head of pen. All bred and raised by us.

In First-Prize New York Males. CHAMPIONS for 12 years.

Barred Plymouth Rocks. More First Prizes at the last 12 New York Shows have been won by birds we bred and raised than any other exhibitor has won on ANY BREEDING.

Nearly Three Times as Many First Prizes on Males at these shows have been won by birds we bred and raised, than by any other exhibitor on ANY STOCK.

We Have Liberty to Publish All Facts Given in This Advertisement.

FEMALES. \$525 was recently refused by us for a "GRANDSON'S BROTHER 5th" cockerel and 4 "LEE BELLE" pullets. All our breeding.

Six Females of OUR BREEDING were winners of First Places at recent National Shows, and 15 of Our Breeding have been winners of First Places at New York Shows.

The HIGHEST PRICE EVER GIVEN in this country, to our knowledge, for a Barred Plymouth Rock, either sex, was recently received for one of our "LEE BELLE" females.

SHOW BIRDS as heretofore, suitable for any competition. Also a grand lot of medium-priced Exhibition Birds. Hotones for the money. Carefully mated breeding-yards of our best blood at very moderate prices. Special rates on poultry in large numbers. Large circular of "AMERICA'S BEST-ILLUSTRATED," Free.

BRADLEY BROS.,
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Madison Square Garden Winners.



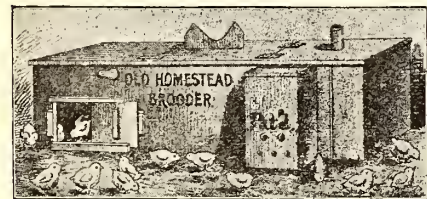
S. C. Brown Leghorns, cock first, hens 2d, 3d and 4th. Cockerel 3d, pullet 5th. Won in different years. I have the finest lot of cockerels and pullet-bred cockerels I ever had. They will be large and out of the finest stock. **Rose C. Browns** out of my great winning strain, New York and Boston. **Single and Rose C. White Leghorns** out of strains that have won in largest shows, large and white. **White Wyandottes** of **Duston** strain. We have won wherever shown, and customers won in shows like **Pittsburg**, and east and west. **Barred Rocks** (Bradley,) out cockerel score 93½ in show, and of the finest pullet strain also. **Light Brahmas**, **Buff Wyandottes** of finest strain.

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THE Old Homestead Brooder

Is the only Brooder made in the world that will hover its allotted number of chicks until they are three months old. We make three sizes, 30, 50, and 100 chicks. Catalogue free.

OLD HOMESTEAD BROODER CO.,
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NORTHUP'S MINORCAS SINGLE AND ROSE COMB.

BARGAINS IN BREEDING HENS to make room for growing chicks. Fowls successfully exported to all parts of the world. **LARGE CATALOGUE FREE.** 68-page book, "Minorcas All Varieties", history, mating, fitting for show, &c., fully illustrated, 25 cts., postpaid.

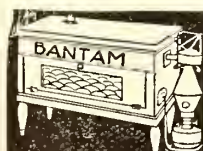
My Minorcas have never lost a special for large size, and have won more prizes in strong competition at New York, Boston, Washington, and other leading shows, than any other four strains combined, which proves the quality of stock I sell.

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Trethaway's Anthracite Black Minorcas

Beat all records at New York for the last four years, winning more premiums than any two strains. Winnings at New York, 1901, 1st cock, 1st, 2d, and 3d cockerels, 1st and 4th pullets, 2d hen, and 2d pen; the \$250 club trophy 1899, 1900, and 1901; Board of Directors' cup for best five males; American Fanciers' cup for best cockerel and pullet; Poultry Monthly's special for best cock and hen, and six other specials, in competition with the best in America. A few grand cockerels for sale. Eggs from my winners, \$3 per 13; \$5 per 26. Satisfaction guaranteed.

ARTHUR TRETHAWAY, Wilkes Barre, Pa.



30 DAYS TRIAL
Hatch Every Good Egg

Or Don't Keep It.

Send 2 cents for Number 108 Catalogue

50 EGG \$5
SIZE \$5
100 EGG \$9.50
SIZE \$9.50
200 EGG \$15
SIZE \$15

SELF-REGULATING BUCKEYE INCUBATOR CO. SPRINGFIELD

THE PAN-AMERICAN

Adds 55 Premiums to the Record
of 205 Prizes at.

Hagerstown, Philadelphia, Orange, and
New York Last Season.

In Barred and Buff P. Rocks; Buff and White Wyandottes; Sebright, Buff, and White Cochins Bantams, and Pekin Ducks we offer you sons, daughters, brothers, and sisters of above winners fit to win in the show-room, or to complete your best breeding-pen.

We guarantee to please you, or you may return birds at our expense, and we will cheerfully refund your money.

Write us your wants, and receive free illustrated catalogue of

Millville Poultry Farm Co.,

Box H, Millville, N. J.

M. F. DELANO, Pres. and Mgr.



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New Green Bone Shell Cutter for the Poultryman

Also Bone Mills for making phosphate and fertilizer at small cost for the farmer, from 1 to 40 horsepower. Farm Feed Mills grind fine, fast and easy. Send for circulars.
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LINE-BRED LAYERS.

BIG REDUCTION ON EGGS.

Aucunas, imported matings, eggs, \$3 per 15; \$5 per 30.
S. C. B. Minorcas, \$1 per 15 eggs.
S. C. Brown Leghorns, \$1 per 15 eggs.
S. C. Buff Leghorns, \$1.25 per 15 eggs.
S. C. White Leghorns, \$1 per 15 eggs.
Silver Spangled Hamburgs, \$1 per 15 eggs.

J. C. Branthoover,

HOMER CITY POULTRY FARM,

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(Trade Mark.) Zinc Paint.

This is undoubtedly the most effective insecticide known. One single, thorough application of it to inside walls, perches, nest boxes, dropping boards, etc. of

Poultry Houses

will free them from mites and lice for years. We deliver it free to your nearest railroad station. You apply it in accordance with directions, and if it does not do exactly what we claim after a year's trial, we will send your money back. We are responsible, and our guarantee is good or this paper would not publish our advertisement.

ZINC not only protects against insects, but prevents all decay. Wood painted with it lasts three times as long as plain unpainted wood. It gives a handsome, tasty color; lasts five times longer than linseed oil paints and costs less. If you can't get it from your dealer, write us direct for circulars, prices, etc. It is equally effective for painting pig pens, cow barns, dairy buildings, barns, etc. Address,

United States Paint Co.,

P. O. Box 2149, New York, N. Y., U. S. A.

Valley Farm

SIMSBURY, CONN.

Property of JOSEPH B. THOMAS, JR.

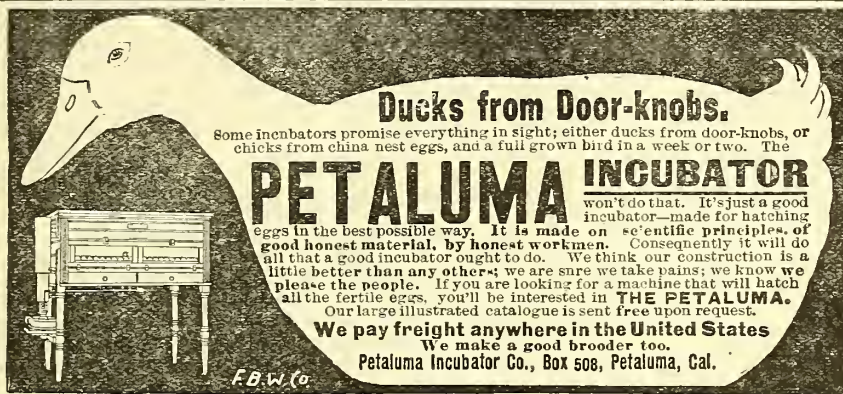
The home of America's Finest Barred and White Plymouth Rocks, Houdans, Faverolles, Bronze Turkeys, Belgian Hares, (Borzoï) Russian Wolf Hounds. Exhibition Stock now for sale.

Address J. F. CRANGLE, Mgr., Simsbury, Conn.

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New York and Boston prize-winning blood and birds. B. Langshans, B. Minorcas, L. Brahmas, S. C. B. Leghorns, B. P. Rocks—double matings. Imperial Pekin and Indian Runner Ducks. 400 acres of grass and shade. 2,000 birds. One of the largest and best equipped establishments in existence—Low prices. Large, artistic, and descriptive catalogue free.

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Ducks from Door-knobs.

Some incubators promise everything in sight; either ducks from door-knobs, or chicks from china nest eggs, and a full grown bird in a week or two. The

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won't do that. It's just a good incubator—made for hatching eggs in the best possible way. It is made on scientific principles, of good honest material, by honest workmen. Consequently it will do all that a good incubator ought to do. We think our construction is a little better than any other; we are sure we take pains; we know we please the people. If you are looking for a machine that will hatch all the fertile eggs, you'll be interested in **THE PETALUMA**. Our large illustrated catalogue is sent free upon request.

We pay freight anywhere in the United States
We make a good brooder too.
Petaluma Incubator Co., Box 508, Petaluma, Cal.

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At N. Y. City, 1900, 1st cock, 1st, 4th, and 5th cockerels; 1st, 2d, and 4th hens; 1st, 2d, and 3d pullets; 1st, 2d, and 3d exhibition-yards. Fine exhibition and breeding stock for sale.

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The Rural Sun A large 48 column monthly devoted to the Farm, Poultry, Pigeons, Pet Stock, etc., one year free, card or ad of one inch inserted one year and 100 No. 6 white envelopes all for ONE DOLLAR. Postal Money Order or Registered Letter. No stamps taken. Address, **STANLEY CARRICK**, Orangeville, Md.

A Happy New Year



To the birds at the Home of the S. C. W. Leghorn. At the Clinton, Mass., fall Show they won all the firsts, and at the late Fitchburg, Mass., Show, on an entry of 14 birds, they won 5 firsts, 2 seconds, 5 thirds, and 11 specials; first cock; first, second, and third cockerels; tie on first hen; first and second pullets, score 95½ and 94½; pen score, 187½. This won the special on the highest bird in the show (Bantams excluded), special on highest-scoring pen in the show, special on the highest-scoring Leghorn pullet in the show; also the highest-scoring pen in the Mediterranean class of 31 S. C. W. Leghorns, 30 S. and R. C. Brown Leghorns, and 10 Buff Leghorns, and 5 R. C. W. Leghorns and 14 Black Minorcas, won three specials on first pullet, special on the best cockerel's head, head-points to count. Grand special on the highest pen of Leghorns, any variety; 2 grand specials on the highest-scoring pen in the Mediterranean class with 90 birds in competition—the best that could be found—H. B. May, Judge. At Boston, 2d cock, 3d pen, 4th pullet.

My birds were bred from a pen of birds that I imported last spring—both male and females. Eggs for setting from this stock: 1 setting, \$2; 2 settings, \$3.50; 3 settings, \$5; incubator eggs from good, old stock, mated to some of these best young males.

All boxes are made on purpose for me, and out of more than 500 settings sold last year, only 2 reported cracked. All orders for both stock and eggs promptly filled, and all inquiries cheerfully answered. Circular free.

F. G. POWERS, Sterling, Mass.

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Buff Ducks, Buff and Partridge Wyandottes, Buff Barred, and Partridge Plymouth Rocks, Buff Cochins, Buff Leghorns, Rose, Single, and Pea-Comb R. I. Reds, Buff, White, Black, and Partridge Cochins Bantams. Send for circular.

ROWLAND G. BUFFINTON,
Box 677, Fall River, Mass.

LOOK! LOOK! LOOK!

Now is your chance. Buff Leghorns. (A. G. Arnold Strain) eggs, \$2.50 per 13; \$4 per 26. White Leghorns' \$2 per 13; \$3.50 per 26. Orders promptly filled by addressing,

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Again at Cleveland my White Wyandottes have proved their ability to outclass all competitors, winning 3d cock; 1st, 2d, 5th hens; 1st and 4th cockerels; 1st and 3d pullets; 2d and 5th pens. This in the strongest class of

WHITE WYANDOTTES
ever shown in the Central States. Eggs, \$3 for 15, \$5.50 for 30. A few good cockerels for sale.

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GEO. H. BURGOTT,
BROWN LEGHORN SPECIALIST,
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The leverage provided in this device for marking poultry enables one to punch with perfect ease any kind or number of webs, and to do this with the direct-pressure punches would be a tiresome task, and in the case of a hard, tough web, would be impossible unless both hands were used. The



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THE American Fancier's Poultry Book" is one of the best books we have ever offered to the readers of THE FEATHER. It is a grand book, and has been praised by all who have seen it. It is a practical book, and should be in the home of each and every lover of poultry. No matter how much you may know about poultry, you will be certain to find something new in its pages. To the novice nothing better could possibly be recommended. This great book contains illustrated chapters on The Poultry Industry, General Management, The Egg, Incubation, The Chick, Recipes for Feeding, Feeding for Eggs, House Building, Keeping Eggs, Caponizing, Diseases, The Standard Breeds of Poultry, The American Class, Asiatic Class, Mediterranean Class, Polish Class, Hamburg Class, French Class, English Class, Game and Game Bantam Class, Bantam Class—Other Than Game, Miscellaneous Class, Turkeys, Ducks, Geese, and Swans. **Price, 50 Cents.**

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THE most interesting and the only practical book published on raising squabs for market, is our book entitled "Money in Squabs." This book has had a most generous sale during the past year, greatly exceeding the expectations of the publishers, and is, without doubt, the only reliable publication of its kind. "Money in Squabs" treats of every topic pertaining to pigeon raising, and is illustrated with the most modern and practical ideas for housing and breeding pigeons on a large as well as a small scale. You will surely be interested in the industry after reading this book, and the information gained will be worth many times its cost to you. "Money in Squabs" contains chapters on the following interesting subjects:

Introductory, Breeding Houses, Breeding Stock, Distinguishing Sex, Food and Feeding, Water, Salt, Nesting Material, Manure, Breeding and Management, Dressing Squabs for Market, Shipping and Selling, Diseases of Pigeons—Canker, Cholera, Egg Bound, Enteritis, Going Light, Roup, Small Pox, Sudden Colds, Wing Disease, Worms—and Douglass Mixture. Some of the illustrations are: Full-page drawings of Homers, Runts, Dragons, and Duchesse Pigeons, Plans of Single, Double, and Continuous Houses for Breeding Squabs, Arrangement of Aviaries to a Garret Room and to a Barn, Plans for Building a House in the Back Yard, Plans of Nests, Perches, Mating Boxes, Bath Tubs, Drinking-Fountains, Salt-cat and Grit Boxes, etc., etc. The book is thoroughly practical, reliable, and of untold value to all who are interested in raising pigeons for profit or pleasure. **Price, 50 Cents.**

"The Diseases of Poultry."

THE Diseases of Poultry," by D. E. Salmon, D. V. M. is the only standard and reliable work published in the English language on this important subject to every poultryman. The author is too well known to need an introduction, and his works are adopted as authentic by everyone. This is his latest book, and all who breed fowls, whether for pleasure or profit, should have a copy of it. This great book has twelve complete chapters treating on all known diseases which affect poultry. It has 248 pages and 72 reliable illustrations. This book is printed on finest calendered paper, handsomely bound in heavy covers, and weighs exactly one pound. This valuable book has twelve chapters on the following subjects: Introduction, Diseases of the Organs of Respiration, Diseases of the Organs of Digestion, Diseases of the Organs of Digestion Continued, Diseases of the Peritoneum, Liver, and Spleen, Diseases of the Organs of Urination and Reproduction, Diseases of the Brain, Diseases of the Heart and Blood Vessels, Parasites and Diseases of the Skin, Diseases of the Feet and Legs, Diseases Having a Tendency to Affect More Than One Set of Organs, and Injurious Habits and Vices. **Price, 50 Cents.**

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THE fourth book of THE FEATHER'S series is Myra V. Norry's latest production, "Pocket-Money Poultry." This book was written primarily for women who wish to supply themselves with pocket-money by keeping a few fowls. It begins at the beginning of the subject, goes into the details, points out the essentials, and makes the course of the successful poultry-raiser so plain that any intelligent person can follow it without difficulty.

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"Pocket-Money Poultry" has the following interesting chapters: Women—Fowls—Money, How Much Capital?, Choosing a Line of Work, The Breed That Wins, Artificial and Natural Incubation, Satisfactory Coops and Brooders, Mothering Chicks, The First Season's Work, The First Season With Fancy Poultry, Confinement or Freedom, The First Poultry-House, Feeding for Eggs, The Embryo Chick at Testing Time, Ducks and Geese, Turkeys for Pocket-Money, Squabs for Pocket-Money, Pocket-Money Possibilities, Pocket-Money Pointers, Supplementary Food Supplies, The Possible Value of Caponizing. **Price, 50 Cents.**

The Feather's Art Pictures.

OUR collection of beautiful poultry pictures is unexcelled. We have prepared these plates at considerable cost and do not hesitate in saying that they are the best art pictures of poultry ever published. Many thousands of them have been sold, and every one interested in poultry should have them in their homes. They are printed on best quality of paper and suitable for framing. All lovers of poultry should by all means possess these beautiful art pictures. Following is a list of twelve pictures 8½ x 11 inches. These are sold in sets of six for **50 cents**. Select any six of the twelve you may wish for **50 cents**, or the full set of twelve for **75 cents**. When ordering a set of six pictures be sure to give the numbers of the ones you want.

1. Barred Plymouth Rock Male. 2. Light Brahmas. 3. Black Langshans. 4. White Wyandottes. 5. Buff Leghorns. 6. Black Minorca Male. 7. Single Comb Brown Leghorn Male. 8. Pair Silver Spangled Hamburgs. 9. Pair White Crested Black Polish. 10. Pair Barred Plymouth Rocks. 11. Pair White Wyandottes. 12. Buff Cochins Female.

BLACK MINORCA SPECIAL.

We have just published a most beautiful picture in natural colors of the Standard Ideal Black Minorca male and female as adopted by the American Black Minorca Club. It is pronounced to be the most perfect picture of these birds ever published; the coloring effects are marvelous, showing the greenish-black plumage as is to be seen in the living birds. The picture is 9½ x 12½ inches, on the best grade of enameled paper, and mailed securely in tubes for **25 cents each** or five for **\$1.00**. Special prices for large quantities.

LIGHT BRAHMA SPECIAL.

This new picture is our greatest triumph. It is 12½ x 18½ inches and is most attractive for framing. The plate is what is known in art as a duograph, and is a most perfect representation of steel plate engraving. The subject of the picture appeals to all lovers of poultry, and makes a picture that will be appreciated in any home. The scene is a beautiful girl standing in the midst of a flock of Standard Light Brahmas, with the farm house and orchard in the distance. It is a sunshiny scene and appeals to the eye at sight. This great picture securely mailed in tubes for **25 cents each**, five for **\$1.00**. Larger quantities at special prices.

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VOL. VII. No. 3.

WASHINGTON, D. C., DECEMBER, 1901.

FIVE CENTS.

The ORIGINAL WYANDOTTE.

Its Beauty, High Qualities, and Value as
an Exhibition Fowl.

The Sayings of its Admirers Grouped for the Benefit of
the Readers of The Feather.

The Silver Wyandotte, or the Silver Laced Wyandotte as properly called, is, without doubt, the best of all the Wyandottes for real high-class Wyandotte shape. You will find more real beauty of form in a flock of poor-colored, dark-backed, frizzled and mossed specimens of this variety on the average than is seen in flocks of the same character of any of the other varieties of this family.

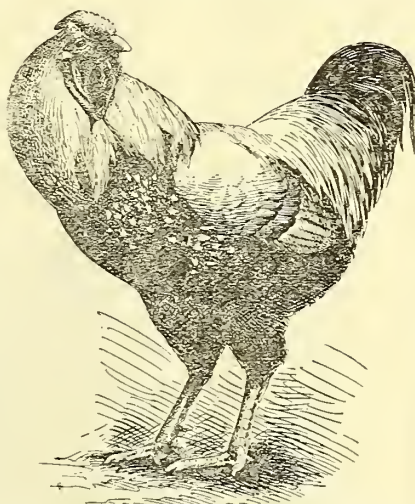
This natural trait of this variety for the preservation of good form is so strong that it comes fairly well even from chance matings, and the same good shape is prevalent with the Whites that have come as sports from them. In the face of all these high qualities no other variety of our American breeds has been so poorly guided and cared for as to color.

It is not the intention to go into the history of the Wyandotte beyond what may come from the sayings of those from whom we shall quote. The intent of this compilation is to place before our readers the thoughts of others, with our notion of the same, so that all of those who may be interested in this variety shall have before them the many ideas of those who pay special attention to this beautiful fowl.

None of the American breeds have been so abused as to the point of color as have the Silver Laced Wyandottes, from which have sported both the Black and the White varieties. When the Blacks made their appearance in the yards of Mr. Clemens, of Mechanicsburg, Ohio, they came from specimens that gradually grew darker and darker in plumage each year till they naturally came solid black or almost so. At that time a mere strip of white in the center was called a white center, and a small, oval white center was a wonder. Drifting from this came the too much white and the white sport.

THE ARTIST'S RECORD.

Mr. Sewell, who can be depended upon to give the best and truest condition that surrounds him at the time he produces a picture, gives us in his color-plate, 1890, Ferris Publishing Company, Wyandotte fowl rather a dark-colored bird, with oval or elongated narrow centers



A SILVER LACED WYANDOTTE MALE.
Bred by Theo. E. F. Holzhauser.

with shaded backs. This is the manner of fowl that held the sway from 1885 till about five years ago, when some of the New England breeders arose to the occasion and started a furor in the right direction. Much of this came as the result of some articles written by Mr. McGrew several years ago, from which we quote. He wrote as follows: "The best all-around Wyandotte to-day is the Silver Wyandotte. Its size is good, its

form most perfect, considered from a utility standpoint, and its color is the best—not white enough to soil, nor black enough to injure for market purposes. It simply needs continual attention to make it as perfect a show fowl as its cousin, the White. Like all barred, laced, or penciled fowls it must be line bred with the greatest care to free its plumage from its bad markings and poor distribution of color."

Here we have the warning sounded in no uncertain manner. The same writer goes on and tells us to consider the one section of back. "How very few do we find," he writes, "that have the proper center on back, and the bulk of all the males have their back overcast with very dark shadings. Many have cast the breed aside for this defect, declaring it an almost impossible task to clear the back-plumage." Following this the writer advised the use of specially selected females with males as clean and clear as the Silver Laced Hamburg. At this early day was the warning sounded that has taken root, and its adoption by the most progressive has brought about quite a discussion on the color of Silver Wyandottes.

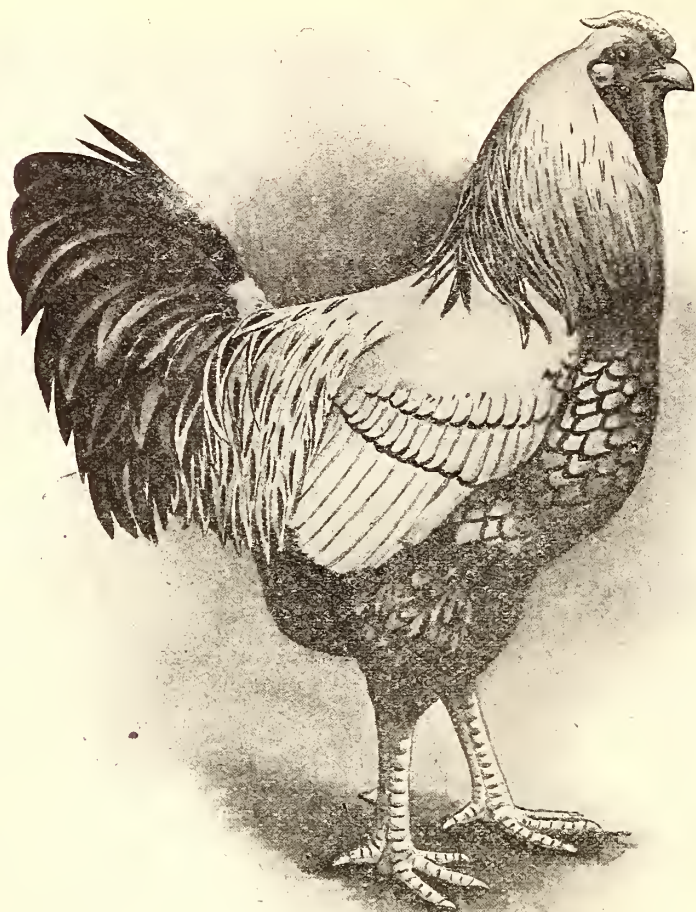
EXPERT TESTIMONY.

On this subject Mr. T. E. Orr wrote as follows, in *Commercial Poultry*:

"Answering your recent inquiry as to the tendency of Silver Wyandottes to throw white sports, permit me to say that you have touched a tender spot—really the vital spot—of the breed as it stands to-day. Back in the good old times, say 1881 to 1886, when a good many were breeding Silvers, a white sport was an extreme variety. They did exist, however, and it was from a pair of these that our friend Houdlette, of Boston, proceeded to establish the new breed called White Wyandottes. He found enough others of the same sort to furnish him all necessary out-crosses.

"Personally I can say positively that in those six years in which I gave my birds my personal attention I never hatched a white chick and never had one reported from my customers, who were then residents of nearly every State in the Union.

"Then, as you know, I was breeding the straight Whittaker strain, and from 1886 to 1900 the man who bred my stock straight in line without out-crosses, had the same experience as myself. I think I can say positively that he never hatched a white chick from those Whit-



AN ENGLISH TYPE OF SILVER LACED WYANDOTTE MALE.

taker birds. Last year when I again took these birds under my personal charge I had the same experience—of some 600 chicks hatched, not one was white.

"But how was it in 1901? Well, fashions changed. The craze for open lacing and laced wing-bar was so great that I yielded to temptation and in two of my ten yards put in two male birds that belong to the new order of things. The result was disastrous. Among the chicks that we hatched from those yards just about one chick in each twenty was white, and the reports from customers run about the same way. This fact exists although every female in those yards is pure Whittaker strain and the new males were not extreme in open lacing and laced wing-bar, but they had the evil in their blood, although both of them were American bred.

"The letter you enclose explaining that Silvers do throw numerous white sports now is written by a very reputable gentleman. I do not believe he over-rates the evil in the least. The five breeders to whom he refers for verification will, if candid in the matter, confirm his statement. Four of the five I know personally have been dipping deeply into English blood, and while they are getting some beautiful open laced females, and from different matings are getting some beautifully laced wing-bars on their males, they are, as our friend says, getting many white birds. How can it be otherwise? The English breeders and some of their American imita-

tors are ignoring the principles on which the Wyandottes were founded, and in their matings are utterly violating the fundamental demands of the Standard.

"As an illustration: I see that one of these extremists on the subject of double mating is announcing that he will hatch his prize-winning pullets from extreme open laced females mated to a pure white cockerel. Shades of Whittaker and Kay! What do you say to that? But what can you expect breeders will not do if they know that some of our prominent judges are awarding the prizes on the basis of surface-color only, without opening up either neck, back, or fluff, not to mention the passing by of flights two-thirds white, forsooth, because the fortunate cockerel has three rows of laced feathers on his wings, or because the lucky pullet has wide-open centers on her back?

"Gentlemen, friends of the Silver Wyandotte, and many of you personal friends of mine, mark me down as a crank on 'dark under-color,' 'standard flights' and 'single mating for both sexes' if you will, but when you have been working on Silver Wyandottes as long as I have, say ten or a dozen years hence, you will stand on these questions just where I stand to-day, and will be sorry you went daft on the English style."

LONG TIME A BREEDER.

Well did we know Mr. Orr and his stock back in 1885, and he had some

good ones at that time. But, Brother Orr, "the world do move," and you are naturally progressive and will shake off the old ways of bygone days, and discover that it is quite as profitable to make use of the white or too-white ones that come for killing as it is to market three-fourths of the other kind for being too dark. Just shake off that notion for dark slate under-color and change to slate or gray, clear up the surface-plumage and rid yourself of the notion that under-color is the great I am for a show bird, as you will soon do, and you will find Orr's Silvers the real thing as they were in 1885.

We admire your love of the beautiful, also your loyalty to the Standard, and your wish to have the under-color of former days, so long as demanded by the Standard, but having concluded to handle the baton of the judge you must join in that onward march for better things and aid those who have labored, while your love of the Wyandotte has slept, to go onward and upward. While you have gained wealth and prominence for yourself, others have started a work you must help to carry to completion. Do not for one moment suppose that one of your progressive spirit can be content with the quality that can cover the dark slate under-color. Your very own spirit of nothing but the best will lift you to the higher plane of clear, open-laced plumage upon a proper shade of under-color to support it.

CONSIDERATION OF OTHERS.

Mr. Holzhauser, of Columbia, S. C., wrote, several years ago, that the great trouble is the females will come too dark on back and breast. This gentleman has won honors with his birds at New York, and knows full well the troubles of too much dark color. He advised at that time the mating for clear open lacing and rich black edging for same. Mr. P. H. Gassard, of Missouri Valley, Iowa, has gone so far as to breed back to the original laced stock a white pullet that came as a sport from the same stock. From twenty-two of her eggs he had three pure white chicks, balance all A-1 Silvers. The result of this shows that the foundation blood was so strong in this pullet as to reproduce of her ancestors' color rather than of her own. This gentleman writes that he now feels assured of having open-laced stock that will not throw any greater per cent of white sports than will the darker birds.

We clip the following from an article by Mr. Waldo H. Dunn, Monroe, Ohio, who has been quite successful with open-laced birds:

"Permit us to say that we began breeding the Silvers when the really first-class breeders could be counted on the fingers of one hand; when the centers or the females' backs were merely white shafts or the open centers of the pullets were sadly marred by penciling. I tried several seasons to produce fine birds of both sexes from strictly standard matings; that is, the males had a heavy black stripe in hackle and saddle, with a small diamond in back and saddle-feathers, the under-color a dark slate; the females with medium centers in back and cushion. We were never satisfied with the results. The females were always on the dark order, the few which happened to have open backs molted out mossy as hens. To be sure, they were of good black color, but the white was very poor. Mr. Winglewitch

expressed himself as being equally dissatisfied with the progress.

"Then we began to work on a new line. We argued that since the Silver was intended to be a laced fowl, lacing we must have. We selected females with the cleanest open centers on back and cushion and in the neck-hackle that we could possibly obtain; placed with them a male having large, white centers in back and saddle, a white shaft in hackle, well laced on thighs and fluff and with light slate under-color. The results were gratifying. We repeated the mating. Still greater progress. We have followed the mating steadily, producing better and better birds each year, until this year the backs and cushions of our young pullets are as clear as the breast-lacing, and as large. We are satisfied that we are on the right track. We never used an extreme mating, such as placing a white male with dark females, or vice versa; neither did we use extreme lacing, nor do we sanction such matings.

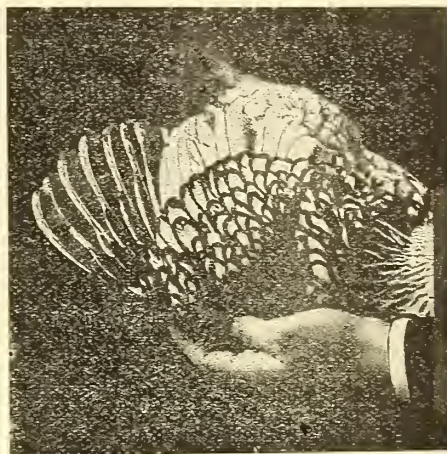
"You ask about the males. Ah, now comes the rub. From such a mating you will get but few having a solid black stripe in hackle and a heavy black stripe in saddle. They will have a white shaft in neck-hackle, heavy, tapering centers in saddle and a light slate under-color, but they will be laced from throat to thighs, back on fluff and down on shanks, making a more beautiful bird and one that can be produced from the same mating as the open-laced pullets.

"Now, let us consider the matter of white chicks. They are rather more common than heretofore. We do not believe the English blood to be responsible for them in any appreciable degree. The first white sports we ever had were from pure American birds. The male from which we secured our largest number of whites was strictly American. The pure English cockerels, which we have from a great English breeder, have thrown the smallest percentage of whites—less than four per cent. We think that the great prevalence of white sports is caused by the upsetting of blood lines. In the mad rush for lacing and more of it breeders forsook all old methods and introduced birds from any source and origin. Some even used the

most extreme matings. Among flocks that have been line-bred for years without resorting to any decided outcross, the number of whites will be small. If you want to secure bad specimens or freaks from any breed, resort to raw outcrosses. New blood must be infused cautiously and the progeny bred skillfully to secure the best results. Therefore we do not seriously regard the matter of white sports; as soon as the different lines become amalgamated, and line-breeding followed for a few years, the number of white chicks will decrease. Our percentage has been small—four per cent of the entire number of chicks hatched during the last six years would be placing it high.

"I shall repeat here the sentence that I have used so many times that I fear it is becoming a chestnut: 'When the Standard permits a heavy white stripe in saddle, an open neck-hackle and a lighter under-color in males, together with an open neck-hackle in females, good birds of both sexes can be produced from the same mating and double mating will be obviated.' The Golden Wyandotte men have followed this method and have produced birds that are marvels for lacing. When we Silver breeders do the same we can breed birds that will be unsurpassed for beauty.

"The English style seems to be troubling some, but the English style is just what we want. The English standard for Silvers is not unlike our own. Let me quote a few sections from it: 'Neck—Silver white, with clear black stripe through center of each feather, free from ticks; breast, web, white, with well-defined jet of black lacing, free from double or outer lacing, regular from throat to back of thighs, showing green luster; under-color, dark slate; saddle, same as neck.' The breast of the female is required to be: 'Web, white, with regular well-defined jet-black lacing, free from double or outer lacing, showing green luster; back, color and lacing same as breast, as regular as possible all over.' At the close of the Standard we find the following: 'Regularity of lacing and quality of color in all cases to count more than one particular depth of lacing.' The lacing here described is what we want, but not the striping called for in the male. It re-



MARKINGS ON WING OF SILVER LACED WYANDOTTE FEMALE.

quires double mating to produce it, and that is the reason English males from pullet matings are failures as show birds."

OPEN LACING ADVANCED.

It will be plainly seen from the above that the rich open lacing is fast gaining ground, and must become more popular all the time. The result must be the placing of the original Silver Laced variety where it belongs, in the exhibition-pen, in the fanciers' yards, and for utility purpose. The one true way to gain prominence and popularity for a breed or variety is to have them beautiful in form, rich in plumage, and attractive in markings. All of this will be included in the make-up of the Silver Laced Wyandotte of the twentieth century.

The Sebright lacing as seen on the most elegant little bantams must be the future style for the Silver Wyandotte female, and the breast and underpart of the male much the same. Of course we know that of necessity black markings must be heavier than on the Sebright Bantam, and the under-color darker than seen on the best Silver Sebright; at the same time under-color must be toned down or rather lightened to meet the necessities of the occasion.

Mr. John C. Jodrey, of Danvers, Mass., writes as follows for *Commercial Poultry*:

"The first successful importer and breeder of English Silvers and having been a breeder of that variety continuously since '82, I take the liberty to offer you my experience in regard to sports from the Silvers during that period. Beginning about '85 I regularly hatched a few sports from my flock and this continued until the once-beautiful Silvers were bred so dark that the sports came black or nearly so; so dark that if one wished to produce a strain of Black Wyandottes it would have been an easy task. About this time the boom was spent, the Silvers spoiled, their glory gone, and many of their former breeders threw them aside as a breed not worthy of consideration. It was not to be wondered at that many lost heart, for they sported both ways and threw more culls than one could shake a stick at. My idea was that if nice, clean, open-laced birds could be produced the variety would again become popular, and in a small way I set out to do what I could to bring it about. For a few years I experimented with the



PAIR OF PULLETS—Bred by J. C. Jodrey.

best stock obtainable and with fairly satisfactory results, but the difficulty experienced in improving the wing and back sections led me to import a pen of English Silvers.

"These birds were bred as imported (which was against my judgment) and also crossed on some of my best females, and neither from full English nor the cross did I in four years hatch a single sport. The result of my first cross was very satisfactory, producing females that scored 93½, 95, and 96, and males well up. These birds bred in line have been at the front since 1898 in Boston and New York and other shows. In 1900 I used a male from a more recent importation, from which I hatched several sports, and the same male bred in line in 1901 produced about six per cent, while from his cockerels mated to my flock I did not hatch any. I do not like to see sports, but why should we condemn otherwise good stock, even if they do throw an occasional sport? Had I to choose between an occasional sport and the Silver Wyandotte of bygone days I would take the former every time.

"The mingling of English and American Silvers is, with many, only in the experimental stage. In a short time they can and will be bred without sports or only an occasional one and with far less culls. We are now breeding laced fowls that are nearer the standard than at any previous time.

"That the Silvers have been greatly improved and beautified goes without saying; the very fact that those who once 'threw them over' are now loud in their praise is proof positive that they are worthy of consideration. Look at the beautiful open and uniform lacing on the females of to-day; note breast, wing, thigh, and hock-lacing on the males, compare them with the Silvers of bygone days and say whether or not you want to take a backward step. This has been brought about by the skillful handling and proper mingling of English and American Silver blood and the grand jury, the great American people, look on with approval and say, 'Well done.'"

Those who have seen Mr. Jodrey's birds at the Boston Show can testify of their beauty. He has demonstrated the fact that beautiful surface-color and markings can be produced and at the same time has given us a living picture of real beauty in this variety. All the feather illustrations shown from life of the open-laced style show the lighter under-color that must come as the white predominates, as it must, to have the color and lacing of the present fashion.

IMPROVE AT HOME.

If the admirers of the Silver Laced Wyandotte hope to succeed in producing high-class show specimens, such as should be shown as samples of American art in breeding exhibition fowls, they must clean up the top-plumage of the male and extend the lacing well back on the thighs. We must have the Sebright lacing, only it should be heavier, and the white must be white and the black edge a rich, glossy black. The colors must be as rich and distinct as on the Light Brahma. Intermediate ground will not do. They must be brought up to the standing of our other American breeds, equal quality of shape and color must be demanded in their case as must be present in any other fowls, and all should cease to make any allowance for the shortcomings of either the Silver or Golden Laced variety.

It is a sad parody on the ability of our American breeders to be compelled to say, when we see them in the show-room, that they are fairly good for these varieties, and to be forced to admit that they have them better in England than we have them is an awful stunt on our ability at handling our own production. We, as Americans, to be compelled to admit that any other people can beat us at our own game, is simply laying down on the job that we originated, and neglected because others had taken up Whites and Buffs and boomed them till the Silver Laced and Golden have been virtually run off the boards. There are not on earth two better varieties than they; none could or would sell better than they if properly handled, and we trust that enthusiasm is fully aroused in their favor.

THE ENGLISH PRODUCTION.

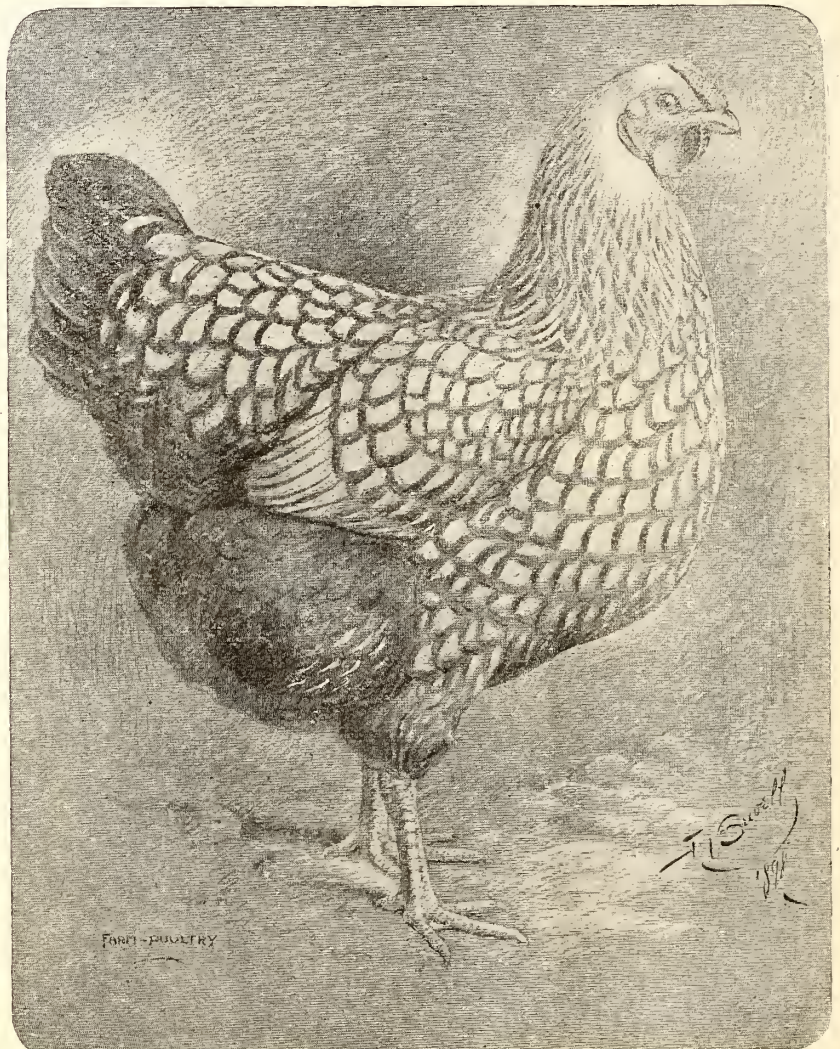
The Silver Wyandottes that come from England are far better in clearness of plumage of both males and females than are ours. The lacing of both is more open, and the white and black so clear and true. But then we must remember that those that have come over are choice selected specimens of their very best, and with all this the shape of most of them is bad, to our notion, and so are the combs. About ten years ago this whole country went wild over English Cochins. We had them turned upon

us with vulture hocks eight and nine inches long and as stiff as shingles. It set us all wild for and against the English type, but their advent did the breed good. As we now have them they are superior to either our former type or the English type. So will it be with our Wyandottes.

The English type has stirred the Wyandotte breeders as they have not been for many, many years. It has so fully aroused them that at this late day a club has been formed in the interest of the Silver Laced. This will do much good, providing all stand for progression and better things. It is as possible for us to have our Silver and Golden Laced Wyandottes as beautiful in color and markings as they can have them, as it is to beat the world at other things.

THE GOLDEN LACED.

So far we have stood the king-pin on this variety, but we can not claim to have them as good as they should be, nor are they as well marked for Golden as the best are as Silvers. If we hope to hold the front position in them we must pull up considerable, for some of the Golden that have come over are beautiful in their shape and form of markings, but the color too light or pale to meet our demands. It may be as well to note this as we go along, as it may save us considerable anxiety in the future. Don't be content because you



SILVER LACED WYANDOTTE FEMALE—Bred by J. C. Jodrey.

win the prizes at present, avoid in advance the consternation that the English Silvers have caused and go faster to the front with better Golden than the world has ever seen.

STYLES OF LACING.

For the benefit of our patrons we illustrate from life the style of birds and the lacing of the plumage as bred in England. These feathers came from some of the noted Crystal Palace winners, both Silver and Golden Laced. We can scarcely think that anyone who is fully informed of the real beauty of an open-laced Wyandotte could even wish to continue to have the old style of more black than white, and in some cases simple small white stripes on the feathers. It should be our aim to have the most beautiful Wyandottes, and we should be content with the shade of under-color that is best suited to the clean, clear top-color of the males and the clear, bright open lacing. The black edging of all the feathers should be rich, glossy black.

There are three very important sections that have been overlooked on the Laced Wyandottes. These are the neck-plumage of both male and female, the saddle-plumage of the male, and the white center of the saddle-plumage of the Silver male. The hackle of the male should be white with the black stripe, the white clear and free from any dark or brown edging and the black should not run out at the point. The saddle of the male should be striped the same as the hackle. The neck of the female should be clear and clean and nicely striped. No smut or spangling should appear on the neck of either, and the back of the male should be as clear and white on the Silvers as is ever seen on the best Dark Brahmas.

As for mousing of the center of the fea-

ther it should not be tolerated to the least extent; we know that it is the influence of the Dark Brahma that shades or pencils the center of back-plumage of the female, but this is not the cause of the black or bronze of shading of back and neck-plumage. This theory of having the white edge of all the back and hackle-plumage of the male edged with dark is all wrong, and comes with too much under-color. All of these defects should be gone after so many years, and would have been if we had not made the error with them as with many other fowls, of demanding too dark under-color.

The same drift is doing its work for our Light Brahmas; too much dark under-color is slowly creeping into the back surface-plumage, also into the edge of the neck-plumage. Years ago we ran wild about deep under-color for Buff Cochins till we had them as brown as a buffalo. In some localities all buff fowls are bred at this time of a reddish-brown rather than of a buff color. We can train ourselves to think almost any shade of color is the demanded or standard color, and one need only follow the poultry shows over the country to become fully convinced that the majority of all who breed either the Silver or the Golden Laced have as unnatural an idea of what is proper in them as have the breeders of any breed or variety of fowls.

No reason can be advanced for having the color and lacing of these fowls so unsatisfactory, only because they have been neglected on the ground that they scored about as high as any fowls shown. Many of the short-comings of our fowls can be laid against the judges who encourage poor quality by awarding prizes on inferior quality, often with a score that grades almost as high as is given very high quality in some other breed. This is the case under all systems of

judging, and our present plan of awarding firsts and even seconds at our fall fairs to specimens of scarcely any value, is teaching an object-lesson that this poor quality is first class when it is, in fact, of no real value as fine, high-quality stock.

Barclay's New Triumph.

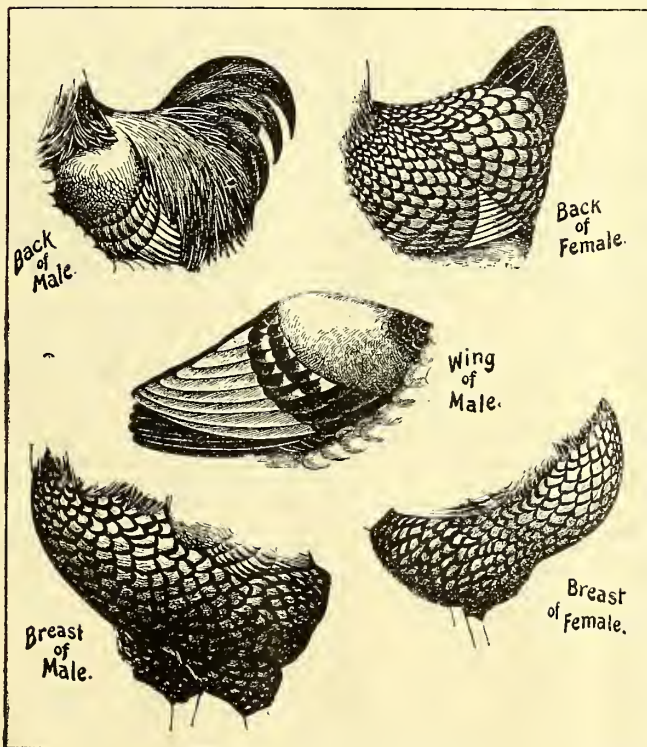
At the last Washington Show Mr. E. L. Barclay, proprietor of the Ideal Rabbitry, won first and special for highest-scoring buck in show; first and special for mature imported buck; first and special for immature imported buck; special for greatest number of prizes won in proportion to number of entries, (five); second in five-pound domestic buck classes; third and fourth in five-pound domestic doe classes, and special for best display.

Still Breeding Pekins.

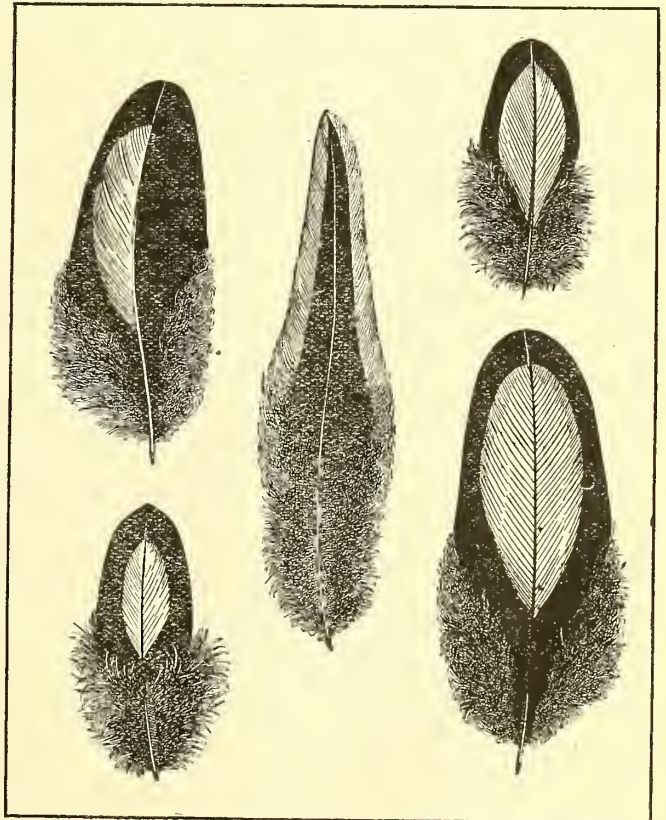
Editor The Feather:

Our attention has just been called to the ad of the "Exmoor Farms" on the rear cover of your paper. We note that they have unintentionally so worded their ad as to create a wrong impression. We have disposed of all our water-fowl, excepting Pekin Ducks, and Exmoor purchased most of our geese, and Cayuga and Muscovy Ducks, but we have not sold Exmoor any Pekins. We will continue to breed Pekins indefinitely, and now have a flock of 350 of the best ones we ever raised. Our record at the "Pan" will attest to their superior quality. We would respectfully refer all our customers wishing geese or variety ducks to the "Exmoor Farms," but will be able to fill orders for Pekin stock and eggs in even larger quantities than we did last year.

MILLVILLE POULTRY FARM CO.,
M. F. Delano, Pres.



SECTIONS OF THE WYANDOTTE.



FEATHERS OF THE WYANDOTTE.

WASHINGTON SHOW.

A Gathering of Good Quality in Poultry and Pet Stock.

Masonic Temple was filled to its capacity last week with all manner of fowls, pigeons, and pet stock. Frank Spahr was superintendent and he introduced the good management of Hagerstown to the show, which told of his training under the old wheel-horse, John Cost, who was present to smile on his protegee and say, "Well done, my boy."

The banner classes of the show were the White Plymouth Rocks, Black Minorcas, and Leghorns. Bantams were well represented, and they say the display of Pigmy Pouters was the best yet made in the country.

In judging them Mr. Bardroff gained general commendation; all present said he did his work well. Mr. Geo. O. Brown, of Baltimore, and T. F. McGrew, of New York, judged the poultry, and the exhibitors complimented them on their good work. Mr. A. E. Warner came over by special invitation to judge the Barred Plymouth Rocks, with which he is thoroughly acquainted.

The display of White Plymouth Rocks was the best we have seen this season. The females would shine in any show-room. First hen and first pullet gems, and the pullets in the first pen would do for the model for years to come. Mr. McGrew, of New York, bought a lot of these females, including the winning pen at long prices, it is rumored. They will go to Boston. Artist Cummings, of *Commercial Poultry*, contemplates using some of these as a model for one of his masterpieces. First cock and cockerel of this variety would be called good wherever they might go, and there were but three in the whole display that might be called outclassed by the balance. The Barred Plymouth Rock classes were small for this section of the country, while Buffs were fairly well represented as to quality and number, but nothing of unusual quality in them.

The Silver and Golden Laced Wyandottes were rather an inferior lot when compared with those seen last October at Buffalo. The best of them all was the first pen in Silvers. White Wyandottes had in their number two cocks, two hens, and three pullets of quality that calls for special commendation. The cockerels lacked the necessary good quality of shape and comb that should be present on all presented for honors in the show-room. Not one good Buff Wyandotte was in the lot; they had poor shape and comb and very bad color and should not be considered as Buff Wyandottes in the sense of standard stock. There were one cock and two hens of Partridge Wyandottes at this show that might be called models for the breed. The cock had shape, comb, and color of the required splendor, even to the rich yellow shanks; the hens good color, shape, size, and penciling, poor in comb and shank; the others could not be called good even for this new variety.

In Light Brahmas, the first cock and hen and first cockerel and pullet were beautiful birds; the second cockerel is full of promise, and second pullet good. Buff Cochins, first cockerel and pullet

way up in color and feather; second pullet equally good in all but size. The balance of the classes were either in molt or not fully matured. The Partridge and White Cochins were good in all Cochins qualities, the winning hen and pullet in the Partridge classes being beautiful birds in size, shape, color, and penciling. Whites very good.

Black and White Langshans were well represented as to both number and quality. The Whites were the strongest class.

In Brown Leghorns the first cock was the best preserved and of the best shape, color, and plumage we have seen on a cock bird for some time; the other cocks and all the hens were good specimens. The young stock was blessed with Leghorn shape, and the color and markings of the whole lot gave each a standing that was hard to select among. The veteran Doctor Dorsey did not show any birds but he was present to enjoy the success of others and compliment them on their success. The classes of White Leghorns, both Single and Rose Comb, could not be called high class. Some of them had the appearance of having been over-shown, and comb, head-points, and carriage of tail were not such as they should be at this advanced day. The three Black Leghorns shown were the best we have seen for some time. They had beautiful heads, combs, and lobes; also shanks, but two of them had to go way back because they showed a little white in flights; too bad, but true.

In Buff Leghorns there were two hens, four pullets, three cockerels, and one pen of gems. Of the three pullets there was but little choice; the second cockerel if fully matured, would be a dandy as to shape and color but comb and lobe not up to the first. Three very good Anconas were shown.

Black Minorcas were a credit to the show, their owner, and the breed. The cockerels, hens, and pullets simply about all one could hope for in the breed; they had the shape, the size, and the color, with good head-points. What more could they have? In cock birds but one was shown and he was a good one. In all there were thirty-nine shown of the Black variety and two Whites.

The Andalusians were very good in quality; they numbered more entries, and size, color, and head-points all good. Rhode Island Reds fair as to number and quality, shape better than color, which was not as rich nor as well placed as it should be. Among the Buff Orpingtons there were some beautiful birds, and the display of Hamburgs was good in quality.

The display of Game Bantams attracted special attention. All varieties were shown in both old and young stock. The Game fanciers clustered about these and seemed to enjoy their presence ever so much. The pen of Black Reds had a large, fine coop in which to air their beauty, an opportunity they were not slow to make use of.

The Sebrights, rose Comb, White Booted, and Japanese had their full share of admiration from both experts

and visitors. Both these and the Game Bantams suffered for lack of room; so many entries in the too-small hall compelled their cooping in pairs, which crowded them a little too close. Light Brahma Bantams, Silkies, and A. O. V. had their places in line, which they held with credit.

In Cochins Bantams the pace was hot. In Partridge and White the quality was good, but in the Buffs and Blacks the keenest fight was on, and all admit the best was there, and Mr. Brown selected well among them. The gems of all were the first pen of Buffs, and first cockerel, hen, and pullet of Blacks; these could all be called well above the average.

Turkeys, geese, ducks, and guinea-fowls were all right and up to date, specially the Pekin and Rouen Ducks, which were of unusually good quality. The display in these classes seemed to please the visitors, and specially the large number of school children, who seemed to delight in their bill and their quacks.

Exhibition-yards—This department was in special favor at this show. Many of the best shown were in these pens. The several pens of Minorcas contained many of the highest quality, as did the pens of White Wyandottes; the pen that won second here could have won hands down if in good condition, but the neglect of shanks and plumage lost them the blue ribbons that might have been theirs if properly shown.

The pen of White Plymouth Rocks attracted the crowds; it was the gem of all, as stated above. They were bought by Mr. McGrew and sent to Elmwood. The pens of Silver and Golden Wyandottes found a well-deserved position, as did the pen of Blacks. In Leghorns, Light Brahmas, Cochins and Langshans good pens were shown. Pens of Spanish, Hamburgs, Rhode Island Reds, and Orpingtons, as well as of all the bantams were shown. All in all these exhibition-yards were quite a feature of the show.

Among the pigeons the eighty-one Pigmy Pouters were the center of attraction to the boys who cling to this fancy. The pigeon display throughout was as might be expected in this locality where so many good ones are bred. Messrs. Twombly and Rabbitt judged the pigeons, and did it well. There was a large display of them of all kinds, and they were shown in beautiful coops of the latest style that show them to the best advantage. A show fully equipped with these coops would be beautiful.

Frank Jenkins scored the Belgian hares and he did it all right; he was on to his job and held to it like a man, to the delight of the exhibitors and visitors alike. If placed on a slight elevation where all could see the work being done it would attract the crowd in almost any show. It is done to rule and in order.

A new feature of the show was the auction class in which birds could be entered, all of which were sold at auction on Saturday. This attracted crowds to the show who willingly paid the value for the stock as offered. This might become a feature at any show that would add to the interest.

The department set apart for incubators, brooders, and poultry appliances was well filled with the several makers' goods and had the appearance of a well-regulated poultry-plant at work alongside a drug shop. Several poultry journals had their stands located in the main hall and all of them seemed to be

doing a lively business. The whole air of the show gave evidence of something doing continually.

Mr. Edward S. Schmid had a beautiful display of White and Black Swans, monkeys, snakes, and birds. All of this furnished pleasant pastime for those who came to the show. The good judgment of the management in gathering all these wonders in the same hall as an addition to a poultry show proves their ability at claiming a right to rival Barnum.

Below we give the list of prizes in the poultry classes as furnished us.

PLYMOUTH ROCKS.

BARRED—Ck 1, ckl 1, G. W. James; hen 1, pair 2, pul 2, Henry C. Shirley, Jr.; pul 1, W. S. & H. O. Vosburg. **WHITE**—Ck 1, hen 1, ckls 2 and 3, pul 3, C. C. Burroughs; hen 4, Berwyn Poultry Association; cks 2 and 3, ckls 4 and 5, pul 1 and 2, J. F. Defandorf; ck 1, Edward Caterson; ck 4, hen 5, H. C. Copperthite. **BUFF**—Ck 1, hen 1, Rudolph Thiele, Jr.; ck 2, pul 1, H. S. Christman; ckl 4, pul 2 and 4, hen 1, H. E. Lovell; ckls 2 and 3, J. F. Defandorf; pul 3 and 5, Gasper Tarr; ckl 5, Mrs. Bertha Kerlin.

BRAHMAS.

LIGHT—Ck 1, hen 1, Lynnhurst Poultry Yards; ck 2, hen 2, ckls 1 and 3, pul 2 and 4, C. F. Chalfant; ck 3, ckl 2, pul 3, Berwyn Poultry Association; ckl 4, pul 4, pen 1, R. Thiele, Jr.

COCHINS.

PARTRIDGE—Ck 1, hen 1, ckl 1, pul 1, Lynnhurst Poultry Yards. **BUFF**—Ck 1, hen 1, ckl 3, pul 2, Spangler Bros.; hen 2, ckl 2, pul 4, R. C. Brauer; ckl 1, pul 1, Lynnhurst Poultry Yards; hen 3, pul 5, pen 1, Berwyn Poultry Association; ckl 4, pul 3, R. Thiele, Jr. **WHITE**—Ckl 1, pul 1, Lynnhurst Poultry Yards.

LANGSHANS.

BLACK—Ck 1, hen 1, ckl 1, R. Thiele, Jr.

LEGHORNS.

BROWN—Ck 1, hens 3 and 4, ckls 1 and 3, pul 1, pen 2, W. H. Barksdale; ck 2, hen 5, pul 3, Berwyn Poultry Association; ckl 2, pul 2, A. O. Preston; hen 1, pul 4, pen 1, L. O. Bromley; ckl 5, N. G. Sechrist; hen 2, ckl 4, pul 5, E. N. Morris. **WHITE**—Ck 1, hen 2, pul 4, R. Thiele, Jr.; ck 2, hen 1, ckl 1, pul 2, pen 1, Theodore Barnes; Ckl 5, hen 3, David Cleland; cks 3 and 4, pul 1 and 3, ckl 2, Clearview Poultry Farm. **ROSE COMB WHITE**—Ckl 1, pul 1, R. Thiele, Jr. **BLACK**—Pul 1, R. Thiele, Jr. **BUFF**—Ck 1, hens 1 and 2, ckls 1 and 4, pul 1 and 5, Charles M. Clime; ck 3, hen 5, ckl 5, pul 2, pen 3, R. Thiele, Jr.; ck 2, hens 3 and 4, ckls 2 and 3, pul 3 and 4, pens 1 and 2, L. S. Dayhoff.

ANCONAS.

Ck 1, pul 2 and 3, Mrs. B. Delcher; ckl 1, pul 1, R. Thiele, Jr.

MINORCAS.

BLACK—Ck 1, hen 5, Berwyn Poultry Association; hens 1, 2, 3, and 4, ckls 1, 2, 3, and 5, pul 1, 2, 3, and 4, pens 1, 2, 3, and 4, Cherry Grove Poultry Yards; pul 5, J. Wallace Snelling. **WHITE**—Ckl 1, pul 1, R. Thiele, Jr.

ANDALUSIANS.

Ck 1, hen 1, ckl 1, pul 1, D. K. Eitnier; ckl 3, pul 2, pen 1, R. Thiele, Jr.; ckl 2, Louis Hartranft.

SPANISH.

WHITE FACE BLACK—Pen 1, R. Thiele, Jr.

HAMBURG.

SILVER SPANGLED—Hen 1, ckl 1, pul 2, J. S. Wolf; ck 1, hens 2, 3, 4, and 5, ckls 2 and 3, pul 1 and 3, pen 1, F. G. Kengla.

GAMES.

B. B. RED—Hen 1, S. Stinemetz. **RED PYLE**—Ckl 1, pul 1, S. Stinemetz. **WHITE**—Ck 1, hen 1, S. Stinemetz. **PIT**—Ck 1, S. Stinemetz. **CORNISH INDIAN**—Ckl 1, hen 1, E. C. Freeman. **BLACK SUMATRA**—Ckls 1 and 2, pul 1, E. C. Duffy.

BANTAMS.

SILVER SEBRIGHT—Ck 1, hen 2, ckl 1, pul 2, pen 1, S. Stinemetz; hen 1, ckl 2, pul 1, Millville Poultry Farm Company. **WHITE BOOTED**—Ck 1, hen 1, ckl 1, pul 1, S. Stinemetz. **ROSE COMB BLACK**—Ckl 1, pul 1, Eddie F. Schmid. **BLACK TAIL JAPANESE**—Ck 1, hen 1, ckl 1, Eddie F. Schmid. **PARTRIDGE COCHIN**—Ck 1, hens 1 and 2, ckl 1, pul 1 and 2, Charles Diffenderfer. **WHITE COCHIN**—Ck 1, hen 1, Charles Diffenderfer; ckl 1, pul 1, Millville Poultry Farm Company; pen 1, Fred Hager. **BUFF COCHIN**—Ck 1, hen 3, pul 3, Charles Diffenderfer; ck 2, hen 1, ckl 1, pul 1, pen 1, J. F. Kirkpatrick; ck 3, hen 2, ckl 3, S. Stinemetz; ck 4, hen 4, ckl 2, pul 2, Millville Poultry Farm Company; ck 5, hen 5, ckls 4 and 5, pul 4 and 5, pens 2 and 3, Louis B. DuFief.

SILKIES.

WHITE—Ck 1, hens 1 and 2, Edward McLean.

TURKEYS.

SLATES, BLACKS, AND WHITES—All prizes to R. Thiele, Jr.

GEESE.

TOULOUSE—All prizes to R. Thiele, Jr.

DUCKS.

PEKIN—Drake 1, duck 3, R. Thiele, Jr.; drakes 2 and 3, ducks 1 and 2, Sharon Mentzer. **ROUEN, GRAY CALL, AND COLORED MUSCOVY**—All to R. Thiele, Jr. **INDIAN RUNNER**—Drakes 1 and 2, duck 1, Mrs. R. I. Farrer.

Foreign Shipments.

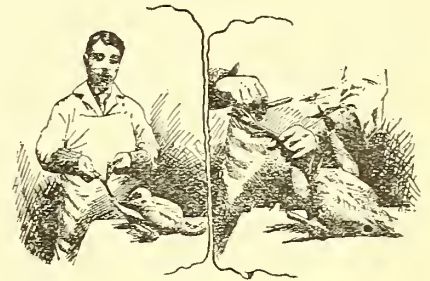
A great deal is said these days about the expansion of American trade, and everyone who has studied the figures showing the growth in American exports, has been astonished at its magnitude.

American incubator manufacturers have not been behind other lines in this respect. This is especially true of the Prairie State Incubator Co., of Homer City, Pa., which has extended its trade to all parts of the world, sending shipment after shipment to distributing points in Europe, Australia, South America, and South Africa, besides sending many smaller lots of one or two machines to individual poultrymen in the same countries. Since the 1st of August of this year, their foreign demand has been especially heavy, and many car-load shipments have been made from Homer City.

The new catalogue of the Prairie State Incubator Co., is now on the press, and by-the-way, we understand it to be the handsomest book ever printed by an incubator company. It will contain good illustrations showing some of these shipments. These, however, are only a few of the hundreds of fine pictures in this handsome book, which will be sent free to all our readers who request it. Ask for the 1902 catalogue, and copy will be sent as soon as it is off the press. We advise you sending in your name at once. Address, The Prairie State Incubator Co., Homer City, Pa.

Dark Meat Made Tender.

One who has once drawn the tendons from a chicken or turkey, no matter how the fowl is to be cooked, will never again use one having the tough sinews unremoved. A marketman will draw a fowl's tendons for the asking, but it is a task every housewife ought to know how to perform herself. Buy a fowl with its legs left on, turn it on its breast and hold the back of each leg, one at a time of course, in the left hand. With a sharp knife in the right hand cut very carefully just below the knee-joint, through the skin, not any deeper. Inside will be found the group of tendons, there being eight in each leg, lying



DRAWING THE TENDONS.

snug in a groove. They are attached to the foot, but through the dark meat they run away up into the leg, well into the upper joint. With a strong wire skewer lift each tendon separately, hold the chicken firmly, and pull. If the chicken is young and tender, each tendon will come out easily and it can be pulled by a slight effort. If the bird has seen several Thanksgivings, all the muscle that can be put into the job will be required, but it is exactly such a bird that demands most the tendon-drawing process.

A turkey calls for more muscle, and "a long pull, a strong pull, and a pull all together." Cut the skin in the leg about half way between the knee-joint and foot and there will be discovered immediately the group of shining white tendons. Slip a strong skewer, or if the bird is quite elderly, the point of the sharpener that belongs to a carving-set, under the bunch of tendons. Lift them carefully, then twist around two or three times, acquiring a firm hold. Give a strong pull and out they will come, together. Count them, and if there are not eight, go after the ones that are left. With these tough sinews removed, the dark meat is so delicious and tender that the drumsticks of one turkey will be found scarcely a large enough supply for the family table.—*Good House-keeping.*

Kill the Sick Fowls.

No one can afford to keep sick fowls unless they be very valuable specimens, and even then the chances of recovery or a return to usefulness at least are very slim. When allowed to run about they will spread their disease among the balance of the flock. When placed alone for treatment the time and money expended for nostrums to cure them are beyond the value of the fowl. Time, money, and anxiety would be better saved by killing the ailing one. Then there is no danger of the trouble spreading into the young stock, nor will there be any danger in the future of eating one of its young whose carcass may be infested by disease.

BANTAMS.

How They are Produced and Cared For.

Bantams should be true miniatures of the breed they are named after. As the Game Bantam is identical with the standard Game fowl, so is the Rose Comb Bantam the counterpart of the Hamburg. By this is meant to the ideal in quality not to the common, everyday specimens as often seen and called by the name that should only be employed when speaking of the breed in its highest condition. As, for instance, a Game Bantam with short legs and flowing tail is not a Game Bantam. Some of the Game Bantam males at the New York Show had legs under them that were longer than an un-cut lead pencil, and the feathers of their tails were not over half an inch wide, and about four to five inches long. They stood up so erect that their eyes seemed in an almost straight line from the center of their feet.

This high quality in bantams gives the real value; such grace of form as seen in some of them carries with it a value fully equaling that of any other fowl. With us, fifty to one hundred dollars is no unusual price for the best; in fact, it is seldom that the best can be bought at any price, and those who can produce winning show specimens can get almost any price for them.

THE GAME BANTAMS.

This variety now stands at the head of the list, both as regards popularity and real quality. We doubt very much whether any fowl, large or small, can equal them in fine qualities as seen with the best breeders. It must not be forgotten that all which are called Game Bantams are not true to the demands as to quality. The fact that so many are seen with short legs, long wings and tails, and round, plump bodies carried forward more like a duck than a Game, leads many to think they are the true type. It is said that some judges have cut the true type for standing too erect and having too small a tail. Those who wish full information as to the true Game Bantam should have the book, "The Bantam Fowl." When handling bantams the fullest knowledge one can have is the best assurance of success.

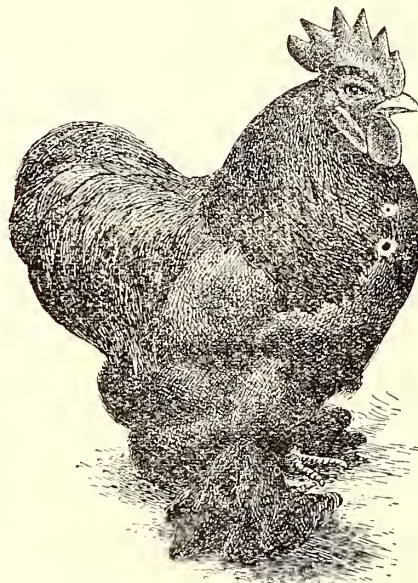
Each Game Bantam is a miniature of the standard variety for which it is named. As the Black Red Game Bantam is identical with the stately Black Red Game, so are the Brown Red, Duckwing, Pyle, and Birchen the same in form and color as their larger relatives. We also have the Indian Game Bantams and the Malay Game Bantams of the same form and color as seen in the larger fowls.

HOW THEY ARE PRODUCED.

Bantams are produced in many ways. Some by cross-breeding; some by in-breeding, and some by reducing by being hatched late and stunted by the cold winter weather. As to some of these plans, a mode by which some Partridge Cochins Bantams were reduced in size, is the following: A bantam male was crossed upon a small-sized standard Partridge Cochins hen; from this cross three small females were produced; eggs laid by these three females mated to a small male produced

some chicks in March, and the females from these eggs laid a nest of eggs and hatched some chicks in September of the same year, giving the two crosses in the one year, or three generations away from the full-sized hen in just eighteen months. Into some of the Dark Brahma Bantams have been worked the blood of some of the most elegant strains of penciled standard Dark Brahmas in the same way.

Only those who have continued with the problem have the least conception of the care and labor necessary to bring a new breed or variety of bantams to perfection. After three years of study



BUFF COCHIN BANTAM COCK.

and care a prominent breeder has now succeeded in gaining a few Dark Brahma females good enough to hope for some good results this season, and he had a fairly good male bird with which to start. The great trouble to overcome in all bantams of the Asiatic family is the extended hocks. All of this family have the Booted Bantam blood, and from this source comes the trouble to them all, and it may be doubted if it will ever be gotten rid of. All of the English-bred Dark Brahma Bantams have the upright tail and extended hock of the Booted Bantam; to exterminate it will take years of hard work, although this has been now accomplished to some extent.

The color of all English-bred Cochins and Brahma Bantams is very bad. Black will continually crop out in the Buffs and white under-color is prevalent in the Blacks to such an extent as to weaken the heart of the bravest when attempting to drive it out. But after many years of care it is announced by one breeder that his Buff Cochins Bantams, also his Black Bantams, breed true to color, and he declares that no more imported stock will be introduced into his flocks. His blood lines are now so well established as to sustain the breeds for years to come. Thus and

thus only can the true bantam type be produced and sustained. This same rule will apply to all kinds of bantams of the higher quality. Common or everyday, scrubby bantams are not to be considered under this rule, for they are only an imitation of the true thing.

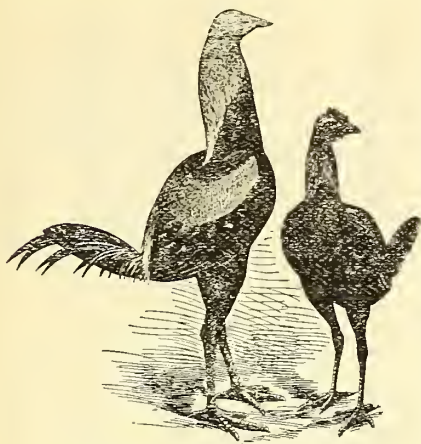
Bantams are sometimes kept in small town lots where but little space can be granted to them. They stand confinement well, lay about one hundred eggs in a year, and they are the most perfect table fowl. Their plump little bodies are as delicate meat as can be found even in the pheasants. Often persons in the city will pay a double price for their eggs as they are considered so very beneficial for young children. In the hospitals no eggs are so much valued as the bantam eggs. It is said that there is almost as much nutrition in a small bantam egg as in a larger one, and in addition to this the flavor is so delicate that once enjoyed they are craved for.

No fowl gives more in return in proportion to space occupied and food eaten. No fowl is bred to more perfection than these, and with equal care they will stand the rigor of our coldest climate fully as well as the larger breeds. The little Cochins Bantam will stand equal hardship with the big Cochins, while the little Rose Comb must have equal care with the Hamburg; the high-bred Game Bantam must be sheltered from cold, rain, and snow during the winter, being as they are the most delicately bred to their fine finish of form and feather. And while they will prosper under proper care it is best to keep them where dry and warm quarters can be furnished.

The most popular bantam is the Cochins Bantam. They are strong and hardy and easily cared for and confined when necessary. We see many Cochins Bantams that are almost as close feathered as a Game Bantam. Because they are small many think they are fine, while the fact is they are not to be considered as true Cochins Bantams. They had better look over-sized, if of proper weight, than to be close or short in feather and look smaller, when of equal weight. The feathers of the fluff are much admired when long and full and outstanding similar to the fluff of the large Cochins, with legs set well apart, cushion round and full. Such Cochins Bantams are worthy of the name, at the same time there are few of this description, and far between. They are not found on all sides, and those who are not fully acquainted with their real quality often prefer the closer feathered specimens.

The Buff Cochins Bantams are the most popular. They have been the longest with us and are better known. A proper Cochins Bantam is a real Buff Cochins in miniature. The shape, the style, and the color should be the same. Shape and carriage are of most importance, and the color should be buff just like any buff fowl. The very large combs of former years are seldom seen to-day.

The Black Cochins Bantam stands next to the Buff in popularity, and no doubt they are gaining daily. They have most beautiful form, plenty of feather, and rich, glossy black plumage. Their bright red faces, combs, and wattles are in such striking contrast with their plumage and they always look neat and clean in all conditions. Most of the Blacks have good shape; being reduced from the large Black Cochins



BROWN RED GAME BANTAMS.

they are not troubled so much with the shortcomings of the Buffs, and when they are black in both surface and under-color they are most beautiful birds. Their greatest trouble is in being too large in size, combs entirely too large, and white in under-color, but under the present care and attention given to their breeding they are much improved.

White Cochins Bantams are simply what the name implies, true little Cochins of a pure white color. Many are seen of the most attractive quality. Their only drawback is the tendency of their plumage to look untidy if not perfectly clean. When they can be kept away from the smoke and dirt of the city they are little gems of beauty.

The Partridge Cochins Bantams are true little Partridge Cochins of most exquisite color and markings. The beautiful red and black of the male and the mahogany-color and markings of the female are most attractive features. None of the Cochins Bantams has been better made than these; bred as they have been, from the very best strains of the large variety, they have all of their high finish and color in their little forms. The finer lines, as they are condensed into the smaller feathers, show more beautifully, if possible, than with the larger fowls.

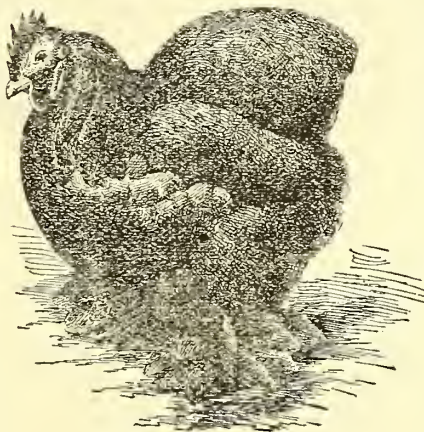
The Light and Dark Brahma Bantams are also just what their name implies—small Brahmas. Many may forget the fact that our Brahmas are our largest fowls; also that the true type must be maintained in the bantams, a fact that makes it almost impossible to have them look as small as a Cochins Bantam. The rule that governs is, that one-fifth the size of the large fowl being imitated is the proper size. When one thinks just what this implies and of the task to be undertaken to bring them to the proper weight and at the same time hold their Brahma characteristics, one may be amazed.

The advancement that has been reached in the Light Brahma Bantams is a credit to all who have taken part in their creation. At the same time much yet remains for their perfection to be accomplished. It is believed that there are but two strains of Dark Brahma Bantams in this country, both coming from a single importation of a male bird. Some have been produced that are about three pounds in weight when fully matured. Another year may probably bring them to standard size. The females used in their formation are the finest in form and color to be

found in our best American strains. This fine foundation-color must show its influence over the future stock so produced.

There were over 350 bantams at each of the large eastern poultry shows during the last exhibition. The display of Cochins Bantams at Boston was the wonder of the age in Boston affairs. While at New York more Brahma Bantams were shown than at Boston, some of the Brahma Bantams shown were quite small and true to color. The interest in bantams in the East is growing very fast, and exclusive bantam shows are held at which there have been over five hundred bantams on exhibition. In many cases the winners change hands at prices ranging from fifty to one hundred dollars.

The display of Partridge Cochins Bantams at both Boston and New York has been a surprise to all; and this, the newest variety of Bantams, should stand so high in quality called for comments from all sides. No one had expected to see, for years yet to come, any of such as were exhibited. The best Black Cochins Bantams ever shown came to the New York Show, their shape and color being simply grand.



BLACK COCHIN HEN.

Bantams are prime favorites within our cities. They can be kept in the small door-yards in very confined quarters. Quite a number have been seen in a yard sixteen by twenty feet in the city, where it had to be sufficiently clean as to pass the closest inspection of the health officers, who are not extremely kind-hearted and would order them all destroyed if any semblance of dirt were found about them. In this way many of our best specimens are produced, and for these reasons the little bantam is such a favorite in the East. At the same time they grow in popularity wherever they are known, all over the land, from the Gulf on the south to the snowclad hills of the Klondike at the north, prosperous and contented wherever found.

Egg-Eating Habit.

The habit of eating their eggs is the result of idleness among the hens. This idleness causes restlessness and morbid habits and an inclination to grab at every new thing they see for something to do. If the hens are kept continually at work digging and hunting in the litter for some small seeds the restless habit is gone. One of the very best ways to cure the habit is to throw five or six

of the white porcelain nest-eggs among them on the floor so they may learn they are like the stones, and a useless task to attempt to break them. In addition to this elevate the nest from the ground so the hens can not see in them when running about, also place the nests in a dark, out-of-the-way corner that is least frequented by the hens.

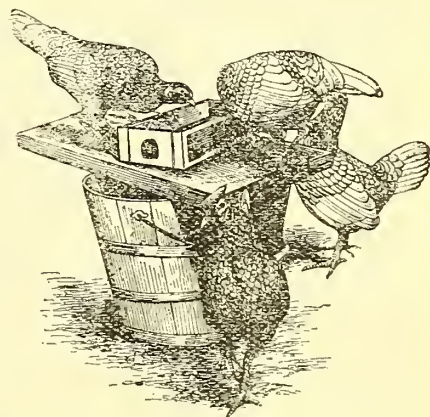
It is usually the most restless hens that break the eggs, but when broken all join in eating them. All these habits can be traced to the nervous, restless members of the flock. We can not but feel satisfied that the prime cause of all these faults is the unnatural life the hens must live when kept for egg during the winter months. If all their wants might be supplied in winter as in summer then it might be different.

Laying vs. Breeding Hens.

The question of egg-production, fertility of the egg, and the producing hen, is one that will confront us more and more each year as the egg-yield grows larger, the fertility less, and the chicks raised show less per cent of exhibition quality. All of these are natural consequences of the manner of the time. We are at the present time urging to the front three unnatural conditions. First, an unnaturally large egg-yield. Second, we wish each hen to lay twenty eggs per month and hope that each one of these eggs will prove fertile and produce a living chick. Third, we expect these same hens to produce a line of high-class chicks that will win honor in the show-room.

All three of these may be partially accomplished, but not all from the same hens. This is a subject well worth our attention at the present time, and we may as well face the problem and consider the true cause. Theories have been advanced, many of which are quite unnatural because they place the blame of infertility against the male, and rest the fault of non-production on his incompetency, feeling satisfied that thus the whole problem has been solved. If this were true how can it be possible under other conditions for one male to head the harem that contains as many as twenty-five hens and prove a great success? Such has been the experience of many who have been surprised at the result.

The most valuable producers are the hens that lay the fewest eggs. If of good quality, they, of all the flock, are most likely to produce the strong, vigorous chicks that develop into the high-



SILVER SEBRIGHT BANTAMS.

class exhibition fowl, and the hen that lays so few eggs usually gives the largest per cent of fertility. In this we have the result that might furnish the ground-work for a solution of the infertility of so many eggs. Might not the hasty completion necessary for the larger egg-yield prevent the accomplishment of the necessary germ contact with the yolk, that is rushed through the several passages on its speedy trip to completion? It may be well to consider whether hens that lay so many eggs in one week are the best for producing chicks. Might it not be best to make haste slowly and use only the eggs for hatching broilers from hens that are not kept continually under high laying pressure? Would not the time saved and the incubator space gained by higher per cent fertility pay better than the other way?

Water-Fowl Club.

The annual meeting of the Water-Fowl Club of America was held in connection with the Pan-American Exposition Poultry Show, at 12 m. Thursday, October 24th, 1901, in Superintendent Converse's office.

The president, T. Farrer Rackham, was in the chair, and the following members were present: Theo. F. Jager, J. Fred Crangle, Edgar Briggs, E. E. Smith, Chas. McClave, W. A. Smith, W. R. Curtiss, M. T. Burn, C. J. Ross, S. E. Wurst, and M. F. Delano.

The minutes of the preceding meeting were accepted without reading, as they had been printed and mailed to all members.

The following water-fowl breeders were elected to membership: W. W. Bulette, M. D., M. L. Halloway, J. Browning, Geo. Denison, Martin R. Maurer, Geo. M. Gardinier, M. T. Burn, A. W. Hillis, A. G. Oliver, N. A. Shetler, Mrs. M. A. Kirkpatrick, J. D. W. Hall, S. E. Wurst, C. J. Ross, and W. R. Curtiss.

The report of the treasurer showed the club to be in a sound financial condition.

The election of officers followed, and the following were elected for the ensuing year: T. Farrer Rackham, president; Chas. McClave, general vice-president; Maurice F. Delano, secretary; J. Fred Crangle, treasurer. These officers together with W. A. Smith, M. T. Burn, and E. E. Smith, constitute the Executive Committee. A committee of five was appointed to report next day a list of five judges representing the various sections of the country, and who are officially endorsed and recommended by the club to all associations as being capable and acceptable judges of all water-fowl.

The meeting then adjourned.

The committee on judges handed the following list to the secretary: Dr. F. D. Kendall, Columbia, S. C., for the South; Chas. McClave, New London, Ohio, for the West; M. T. Burn, Tiltonburg, Ontario, for Canada; W. A. Smith, Whitney's Point, N. Y., and J. Fred Crangle, Simsbury, Conn., for the East.

All breeders and lovers of water-fowls are cordially invited to join our club, and help add to the wide-spread popularity that the beauty and utility qualities of our web-footed friends are fast winning for them. Application-blanks and copy of the club catalogue will be promptly mailed to all requesting same of—MAURICE F. DELANO, Secretary, Millville, N. J.

Current Gossip.

Toronto, as usual, had a grand display of poultry. The management of this fair is so business-like and generous that those who go once must go back, so it grows and grows, till now they call it an industrial exposition and try each year to hold a North American exhibit of the best of everything.

Now is the time to build up your fences, both political and poultry. To properly finish the latter one should consult with Sutcliff & Co., Main St., Louisville, Ky., for they have superior fence netting at prices that will surprise you.

All Sorts of Questions.

Q. 1. Which is the best breed of fowls for broilers, the best for layers, and the best for general purposes? 2. Which nets the largest profit, the layers or the broilers? 3. When is the best time to begin setting for layers, and when for broilers? 4. Is much experience required to run a business of from 3,000 to 5,000 eggs capacity? 5. What incubator or incubators are the best and easiest operated? 6. Do you know of a solution known as the British system for preserving eggs, and can I get a recipe for same?—J. D. P., Hopeton, Va.

A. 1. The best breeds for broilers are those belonging to the American and Asiatic classes. Barred Plymouth Rocks and White Wyandottes are great favorites and are also considered among the best for general purposes. All classes of Leghorns are considered to be the best for eggs alone. 2. This depends upon circumstances. The market egg business is the safest business, especially if one has not the proper experience. Many have made utter failure of the broiler business. 3. The best months to set eggs for layers is from April 1st to June 15th. For broilers, from Dec. 1st to April 1st. 4. Yes, most emphatically. So do not walk before you creep. Begin small and work up your business as your experience will permit. There is a whole lot to learn and to make big strikes on the start will surely result in failure. Time is a great eye-opener in the poultry business. 5. There are several incubators of standard quality. These are advertised in THE FEATHER. 6. We do not know of the method you mention. There are several good ones. The object in view in preserving eggs is to render the pores of the shell air-tight. A solution of lime water is the most common method. Water glass is also used. Eggs packed in dry salt will keep some months.

Value of Grit.

Grit is the life-giving power for all fowls; almost the first meal of the newborn bird is the angle-worm which is so full of sand and grit. This gives the chick the small particles of grit to begin the grinding process for life. The "pigeon-milk," the first meal of the minute squab, is prepared within the crop of the parent bird, a mixture of small grain and proper grit to start the speedy consumption of food that is to bring about the surprising development of size which a squab reaches within a few days. More depends on proper grit supply than most of us seem to realize.

Dry Foods.

Dry foods, such as grain, seeds, bugs, grass, and roots seem to be the natural food for fowls. Ground or mixed foods fed as mash hasten assimilation. These are also more wasteful than dry foods. Mixed food is by far better when cooked, and thus prepared hastens the growth and will, by its speedy assimilation, help to fatten more quickly than will the whole grain. But for good, natural condition and egg-yield, the whole-grain dry food is preferable, and for this purpose the use of all grains and seeds excepting rye.

TOO LATE FOR CLASSIFICATION

HIGH-CLASS PIGEONS FOR SALE. White Fantails and Jacobins at \$1.50 per pair, to make room. All fine birds. A. P. MOSES, Malone, Franklin Co., N. Y.

BUFF COCHINS, BLACK, BROWN, AND Buff Leghorns, White Games, Golden Wyandottes, and Barred Plymouth Rocks. Eggs in season. Write for stock. N. B. WARNER, Hamilton, Va.

FOR SALE.—Solid Dun Homers, bred from record birds; also Almond Tumblers, booted. Write for price. JAMES FIELDS, Box 17, Cresson, Pa.

POSITION WANTED by a fancier as manager for poultry plant. Experience in England and this country. Exhibition and utility. Good references; single. F. H., Care of THE FEATHER, Washington, D. C.

DARK BRAHMA BANTAMS, beautiful birds sold in pairs at reasonable price. T. F. MCGREW, 1267 Broadway, N. Y. City.

BARRED ROCKS.—Now is the time to secure extra-fine pullets and cockerels at bargain prices. Best strains, farm raised. MISS JOSEPHINE CARPENTER, Gouverneur, N. Y.

Bronze Turkeys, bred by 40-lb. tom, one of the best breeders in America, and 20 to 25-lb. hens. Also a few toms bred from 1st-prize men at Chicago, 1901, and 40-lb. tom. MISS JOSEPHINE CARPENTER, Gouverneur, N. Y.

BUFF COCHINS.—3 cock birds, and 6 hens. Grand, fine Cochins for exhibition or breeding will be sold cheap, quality considered. T. F. MCGREW, 1267 Broadway, N. Y. City.

SPEAK QUICKLY.—MEADOW FARM, Moreland, N. Y., specialty breeders, White Rocks and White Leghorns; offer May-hatched cockerels and pullets at \$1 each.

UP-TO-DATE AND UP-TO-WEIGHT Black Minorcas exclusively. Show birds a specialty. If you want to win at the fall and winter shows try us. We have some extra choice stock for sale, write us for particulars. R. F. PALMER & SONS, 574 E. Buchtel Ave., Akron, O.

PARTRIDGE WYANDOTTES. A few pairs young stock beautiful birds bred from the best stock, will be sold cheap. T. F. MCGREW, 1267 Broadway, N. Y. City.

WANTED

A thoroughly competent manager for a well established Poultry Farm. Must understand mating, breeding, and judging as well; and be capable of preparing birds for the show-room.

A fine chance for the right man. Address, THE PLYMOUTH POULTRY COMPANY, YORK, PA.

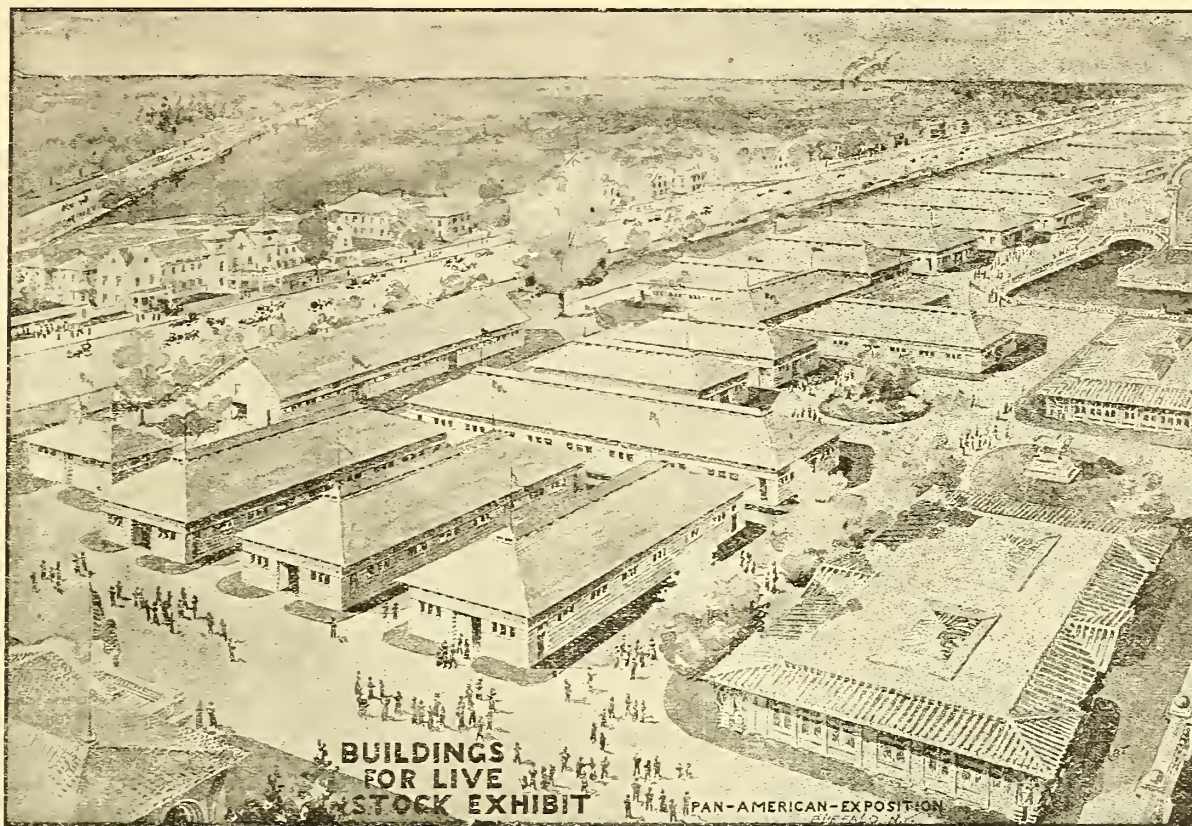
1881 1901
Orr's Silver Wyandottes.
Always at the Front.



At the Great Pan-American, Sixty Silvers shown by Ten Competitors. "The finest show of Silvers ever seen." Beaver Hill Farm (T. E. ORR, Prop.) won just one-half of all cash paid on regular premiums.

1st and 2d cocks, 1st and 2d hens, 2d pullet, and 2d pen, is not a bad showing. A few breeders for sale, \$3 to \$10 each.

T. E. ORR,
552 Liberty St.,
Pittsburgh, Pa.



POULTRY BUILDINGS AT THE PAN-AMERICAN EXPOSITION, BUFFALO, N. Y.

Poultry at Buffalo.

The display of poultry at the Pan-American was a crowning success. Mr. T. Farrar Rackham displayed marked ability in handling the cooping of the display that was scattered through a dozen buildings. Superintendent Burgott acquitted himself with honor in filling the difficult position imposed upon him. While the task was a hard one at best, the many buildings used for the display made it so much harder. The large army of visitors present lent their aid in helping in all directions. Good humor and plenty of it was present on all sides, and the greatest enjoyment seemed to come to those who met again for the first time in many years.

The classes were all well filled and quite a number of specimens were shown in classes that are often missing at our winter shows; namely, the Creve Cœur, La Fleche, Sultans, Polish Bantams, and other like varieties. Another feature was some beautiful White Orpingtons and Indian Game Bantams. Turkeys, ducks, and geese came in such numbers as to surprise the natives, and of such quality as to make your mouth water in contemplation of a coming winter's feast.

We give below a list of entries in the several classes:

Plymouth Rocks, - -	361
Javas, - - - -	24
Brahmas, - - - -	91
Langshans, - - - -	32
Anconas, - - - -	13
Andalusian and Spanish, - -	35
Hamburgs, - - - -	79
French, - - - -	61

Games, - - - -	250
Variety Bantams, - - - -	207
Displays, - - - -	3
Water-fowl, - - - -	199
Sundries, - - - -	111
Pet Stock, - - - -	383
Wyandottes, - - - -	319
Dominiques, - - - -	10
Cochins, - - - -	90
Leghorns, - - - -	282
Minorcas, - - - -	51
Polish, - - - -	115
Red Caps, - - - -	14
English, - - - -	68
Game Bantams, - - - -	166
A. O. V. Classes, - - - -	105
Turkeys, - - - -	63
Breeding-pens, - - - -	184
Pigeons, - - - -	1,845

Total entry, - - - 5,161

The display was well balanced and all classes fairly well filled. No one could too highly praise the winners, which included eight prizes in all classes, and even with this, many good ones were left unnoticed.

The Brahmas and Cochins were strong as to numbers, fine as to quality, quite a number of the young stock almost full grown. Some of the Cochin hens models of Cochin beauty.

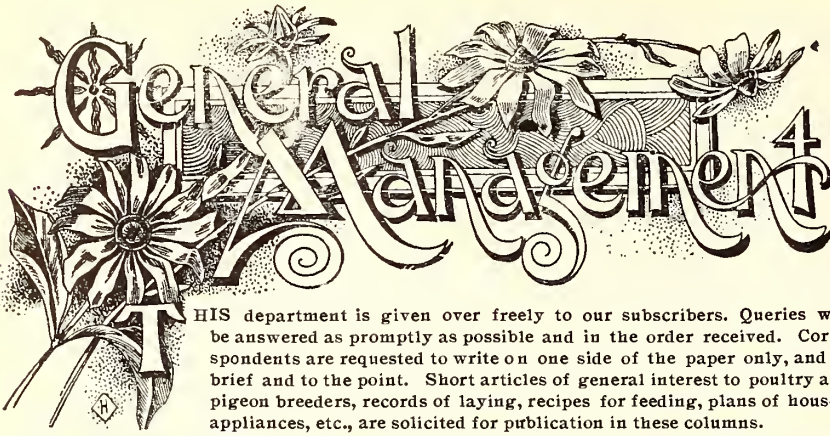
The American and Game Classes surprisingly large; no one has seen better for years, and the new varieties of Wyandottes attracted equal attention with the new comers from France, called Faverolles. All this aggregation of quality came as a surprise to many who were compelled to bow their heads in submission to those who came from far-off sections. The long line of Buff Leghorns was a pleasing sight to behold;

full of quality as it was, it fully rivalled the unusual quality shown among the Whites and Browns.

Games and Game Bantams outdid themselves at this display. We can hardly expect to see it equalled in years. All bantams were strong in quality and number. Turkeys, ducks, and geese, the largest display of its kind in the history of our poultry shows, and the unusually fine lot of breeding-pens were a show to themselves. Pigeons, incubators, brooders, and poultry supplies in large numbers filled four of the barns. All of the wonderful collection was cooped within the buildings, as shown in illustration, all but one of which were filled.

The Yolks of the Eggs.

When fowls are deprived of green food the yolks of their eggs are of a very pale yellow. Such eggs are much valued for cake baking. Some people have the notion that pale eggs denote inferior quality, but they only show a lack of green food, a full supply of which will soon intensify the color. Again, many think that a blood-spot on the yolk is a sure sign of a bad egg; this is not necessarily so, for sometimes this spot is deposited upon the yolk from a rupture caused when the egg passes the oviduct, and would, therefore, be present in an egg when perfectly fresh. This fact shows the necessity of testing even fresh eggs by candle prior to packing for market, for while these spots do not really injure the eggs people dislike to use them, and their presence causes buyers to think you send out bad eggs.



THIS department is given over freely to our subscribers. Queries will be answered as promptly as possible and in the order received. Correspondents are requested to write on one side of the paper only, and be brief and to the point. Short articles of general interest to poultry and pigeon breeders, records of laying, recipes for feeding, plans of houses, appliances, etc., are solicited for publication in these columns.

Barred Plymouth Rocks.

I am well aware many pages have been written about this valuable breed, yet I think I can put down a few results that will be helpful, at this time, to the beginner.

It is my intention to write mainly of mating, but will mention in regards to feeding. The main trouble with a large Rock hen is fat. If they are penned, care must be used continually in the amount and kind of feed. Corn and fattening foods must be given with regard to the condition of the bird. A few years ago I sold thirty-five Rock hens to a customer in Virginia. They now come for Brown Leghorns. People find for easy egg-production a Leghorn can not be outclassed, yet, nevertheless, the Rock is valuable, and will always be within call.

We all like beauty combined with utility, and the even blue and white barred males look fine at the head of the pen, and we especially like a fine male, but in Rocks if you take one fully standard in color you have a bird whose black bars equal his light bars, and if you mate him to hens that are cleanly barred yet the dark bar three-fourths or three times the outside light one, you have a nice-looking pen, yet you will surely find the chicks from the pen, males, some lighter, some like sire, and the pullets none lighter than their dams, but most of them darker. The outside color of the back will run together, showing no barring, and many off in color of legs.

The above is absolutely true in all strictly dark matings. I have watched, not only my own, but a number of other matings. I did not until this year mate up a fully standard male. I always used lighter ones, and I would advise all but those who can sell exhibition males at good prices to mate a male whose light bar is much wider than the dark, and whose leg-color is good. To such a male mate standard females of straight, narrow parallel bars. If a few are darker than standard, that is, the dark bar wider and darker, their cockerels will be darker than their sire, and you will have enough good cockerels and a large per cent of nicely barred pullets.

I think the western judges have done very wisely in awarding prizes to a lighter male than the East. I have seen cockerels win in New York whose outside color on the saddle was almost wholly black. The breast of such birds is

standard and under-color plenty, but as breeders I do not like them, for their pullets are very dark on back and legs. I have also seen pullets win money in New York whose outside was very light, while clear standard outside color got left because of under-color. I say outside color first always. It is wrong to select males darker than standard and females lighter.—W. W. KULP.

Notes from France.

During my outing last summer in France I never lost an opportunity to see the pigeons, pheasants, and poultry of the country. So I saw what the parks, gardens, museums, stores, and backyards could offer in the way of feathered creatures; and then I frequented the great central markets of Paris to see what the epicurean French liked best to prepare in their artistic way for their delightful lunches and dinners.

What impressed me most in the markets was the rather Leghorn type of fowl that I saw there. Coop after coop

of white-legged and medium-sized fowls, with heads after the Leghorn order, and in many cases with plumage resembling a Light Brahma's. These fowls were usually small, and, to me, unattractive. They looked no better dressed than alive.

Large, compact fowls were hardly to be seen in the *Halles Centrales* (Central Markets). The best were marked with Houdan blood. The Brahma was suggested only by the plumage above noticed. The Indians were not to be found nor were the Games. Ducks, and geese, too, were poor, small, and scrubby. Turkeys were also poor, but August is not a turkey month. Young guineas were eaten when scarcely larger than quail. These were only the Pearl type.

The Homer and the Runt seemed to be the favorite pigeons in Paris and in Belgium. There was a variety of Runt with a frill somewhat like a Jacobin that should be popular. I did not learn the English name for them. Jacobins and Fans were not up to ours.

Indeed, excepting the Houdans and the Rouen Ducks, I saw no poultry in France that would stand the ghost of a chance of winning at a decent American show. In the above I do not include peacocks, pheasants, wild guineas, or wild water-fowl; for the Zoological Gardens both in Paris and Antwerp have superb specimens of these rarer birds that are rather ornamental than useful. But the French seem to divorce the beautiful and the useful as we do not. Their Houdans were very fine, but they were better judged by their usefulness than by their fancy points. So it was with the Rouens. But the little Call Ducks were very fine, ornamental and nothing more.

Bantams were all poor. The best of these were Buff Cochins. From my hasty and imperfect view it seemed that the ornamental chicken does not appeal strongly to the Frenchman, although here and there you see some fairly good Polish. But the gardens are doing



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some interesting work in hybrid pheasants. These beautiful birds alive or mounted one could enjoy in Paris to the full. The Museum in the Jardins des Plantes, Paris, is said to be the richest in many things in the world. It was there that I lingered over the pheasants with greatest delight; and also saw for the first time the various forms of the wild guinea in Africa and the jungle cocks of the East, and hybrids or crosses of the varieties of the latter. These were specially interesting as the parents, ages ago, of our domestic cock, whether he be Game Bantam or lordly Brahma.—J. T. LITTLETON.

How Shall I Feed My Hens?

The natural food for hens is grain, seed, bugs, worms, and herbs or grass. The nearer we come to the natural diet the better will it be for the hens. The greater assortment of grain and other foods they have the better, for from these many changes they gain the advantage of having in their system the component parts of each, all of which is needed to carry on the work of producing at least one-half their own weight in eggs each month when producing as they should. Green food and animal food of some kind must be given them or they will lack two of the most important factors of proper diet.

When Building a House for Hens

Too much glass should not be placed in front nor near any part of the front. Simply enough to furnish sufficient light for the fowls is all that is needed. A glass front to a henhouse is injurious to the fowls and not a benefit, for the reason that it attracts the heat by day and the cold by night; makes the house very hot in summer, also quite warm in winter while the sun shines, but when the night comes it attracts the cold, and the change in temperature is greater than caused with small windows. The practice of building the front of the henhouse of glass is all wrong on the above account.

All danger of dampness existing is necessary to be avoided about or in the house. The floors should be quite dry, and the drainage arranged to carry away from the house, always. Good, comfortable quarters are what is needed. It is not necessary to heat the house in cold weather; this is only required when fancy fowls with large combs are kept, and even then the houses should only be warm enough to prevent water from freezing. Fowls can stand a reasonable amount of cold if protected by good, dry, comfortable quarters.

Ground Food and Meat for Young Chicks.

When what is known as the "mash" or mixed food is composed of ground meals, it should be prepared with finely-ground oats and corn, equal parts by measure, bran and middlings about the

same by measure, and some beef scraps, in proportion to about one-tenth of the whole; this will make a good, strong, growing food for the larger chicks that have considerable bone and feather. The beef scrap contains more or less ground or broken bone which is good for promoting growth; rich, strong food has a tendency to loosen the bowels at first, and it is best to give only a little at first and gradually work them up to eating it in larger quantities, when quick growth and large size are the objects.

Good Methods to Follow for the Smaller Breeds.

They should be taught to go upon the roost as soon as they are old enough. A roost should be placed in their coop as soon as they are old enough to leave the hen or brooder, then they will learn the habit of roosting. This will keep their legs in better shape in the way of smoothness and color. This method will not do so well for larger fowls as they are so heavy and clumsy it would not be of benefit to them, for the reason that it would cause their breast-bone to bend out of shape. The best place for them during the summer months is in open sheds upon clean sand, and protected from all roving animals by wire-cloth fronts to the sheds. These sheds or runs should be cleaned every morning and raked over and kept in a healthy condition.

The Time for Separating the Male and Female Chicks.

This may be a matter of choice. If convenient to do so, the sooner the better; but no material harm comes from their remaining together until they become so bothersome that it is necessary to separate them. If it were perfectly convenient, it would be desirable to separate the males from the females at weaning-time; and it would also be pleasing to be so situated as to be able to have the different sizes of each in

colonies to themselves, as they would do better. This particularly applies to the smaller sizes, as the larger ones in the flock are apt to master it over the smaller. In colonies of equal-sized fowls they grow faster, and when these flocks are small in number the health and growth are better.

Food for the Chicks as They Grow Older.

Broken oats, wheat, very small cracked corn and a little millet seed are good, using not more than one-fifth millet. Many young chicks are killed with having too much millet seed; therefore a limited amount of it should be used; a small portion is good, but not too much. When the chicks are old enough to eat whole wheat it is splendid for them, so also is broken corn; in fact, when capable of eating these two grains more than half their food should be comprised of them. Oats and barley are not of much value to growing chicks unless they are hulled or ground, as the husks are too bulky. Hulled oats and barley are very good, also kafir corn.

Give and Get

Treat your poultry as you do your other stock. They can scratch and get what they need in summer, but in winter feed them

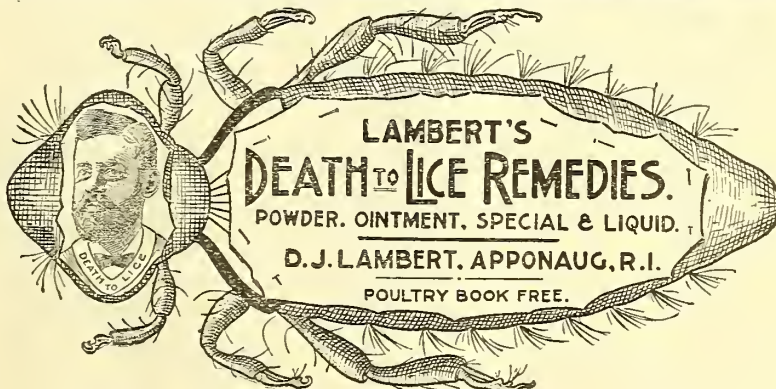
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and they will respond quickly with large egg yield. **Our Cut Clover** is made from specially prepared, air-dried, second growth stock, which we offer at the very special price of \$1.50 per 100 lb. bag.

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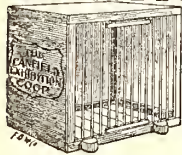
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Does not always win first premium but it is more the owner's fault than the judge's. How can a bird win a valuable prize if not trained and conditioned for the show-room? Our

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are designed for this use and to show off the birds to the best advantage.

They have helped many a bird to win the coveted prize. These coops are easy to keep clean, are put together with screws so they can be quickly taken apart for storage and have many other advantages. We also make a complete line of Shipping and Show Coops. Catalogue free.

CANFIELD COOP CO.

19 Main St., Bath, N. Y.

Culling for Quality.

When breeding for the fancy the poor specimens are to be culled out as fast as they are large enough to show their faults. When a faulty one appears, it should be prepared for the table or sold to the market, reserving for the others the room and the food which it would consume. When of a good, plump broiler size they are usually worth as much for market as they ever would be, and, therefore, there is nothing gained by keeping those that are culled out. This culling should continue as long as there is a poor one in the lot, and by the time cold weather comes there will be nothing left but the best. When rearing for eggs and table fowls combined, those that grow slowly or that are under size for the breed should be sold. In this way the strong, thrifty pullets will be kept for egg-yielding; they will lay early and often and continue all the winter to produce a paying supply of eggs. Many are in the habit of killing the larger and best-favored specimens during the summer and early fall; the opposite course would be better and pay in the end.

Protection of the Chicks from Dampness.

This is of the greatest importance. More injury comes to them from dampness than all other causes. If they are provided with a dry place for their feet during the day and a dry, warm place to roost they will do fairly well during a long, wet spell. After becoming three or four weeks old small chicks suffer very much during wet weather and should be protected from both wet and dampness. The cold and damp produce both colds and bowel trouble, either of which is very destructive to a brood of chicks. During a wet spell it is not a mistake to tie a small piece of gum camphor with a small stone in a piece of cloth and put it in their drinking-water. It is one of the best simple remedies for a cold.

The Philadelphia Show.

Editor The Feather:

Your readers may want to know what the Keystone Poultry, Pigeon, and Pet Stock Association's secretary is doing, now that the show season is fast coming

on. Let me assure them that like old Santa Claus he will have a great many handsome prizes for the boys to compete for around exposition time. A large amount of money has been secured and set aside for cash specials in all departments. The offerings this year will be much larger than last season, which in a measure were the banner specials of the year.

Mr. T. Farrer Rackham will again have absolute charge as general superintendent.

The following specialty clubs will meet in Philadelphia: Black Minorca Club, National Wyandotte Club, Silver Wyandotte Club, American Plymouth Rock Club, Brown Leghorn Club, Eastern White Wyandotte Club, National Pouter Association. There will also be special meetings of the American Water-Fowl Club and White Rock Club. All these clubs will offer handsome specials, and added to the Keystone Association's specials, will make a most attractive list for which the boys are to compete.

The judges in poultry as secured to date are: C. F. A. Smith; T. F. McGrew, Chester E. Howell, H. S. Ball, J. F. Crangle, D. J. Lambert, A. A. Parker, Geo. H. Northup, A. C. Smith, and Geo. O. Brown. The known ability of these gentlemen and their popularity speaks for itself.

The Black Minorca Club's secretary wishes me to say that they will offer over \$230 for cash specials. This does not include the Keystone Association's specials, and should draw out the largest entry of Black Minorcas ever seen at any show.

The pigeon department will have the attention of Mr. Rob't F. Whitmer; a more thorough, gentlemanly fancier could not have been secured. The entry fee has been reduced and placed at \$1. The great National Pouter Club will meet with us, and special cash prizes will be offered. There are already several hundred dollars on the Pouters. Any other pigeon clubs not having made other arrangements, are cordially invited to hold their annual meeting in Philadelphia and to offer their specials.

Already over 600 pigeons have been guaranteed, and the outlook is that Philadelphia will hereafter be known as one of the great pigeon shows in the country. The pigeons will have equally as good a location as the poultry in the great Auditorium Hall, which has 90,000 square feet of space, and all parts of this enormous hall are lighted from overhead.

The judges selected to date are: Wm. J. Stanton, W. Kennedy, Thos. Scholes, D. E. Newell, A. B. Heskings, C. E. Twombly, and Jno. Speller.

The cat department will be cared for by T. Farrer Rackham, assisted by a special committee of Philadelphians, who expect this department to surpass any cat show ever given. Handsome specials have been donated. As the interest in cats in Philadelphia is so great, out-of-town parties are requested to send their names, addresses, and the likely number of cats they will exhibit, to the secretary at an early date, as the number of cats has been limited, for want of proper caging facilities, to 300. The judges will be T. Farrer Rackham, and a judge yet to be recommended by the Philadelphia committee.

The plans for Belgian hares and other pets in the pet stock department will be announced later, as soon as the leading Belgian hare people have been com-

municated with, and their choice of judge decided upon.

For the use of the incubator, brooder, and supply people, the association has set aside in the Auditorium Hall, the absolute center in the heart of the building, 10,800 square feet of space, and already 8,000 square feet have been taken, which shows the interest of the supply people and their appreciation of the space allotted them, such desirable space never before having been given to the supply people by any association. So great has been this interest, that I am happy to be able to announce that the home industry will not be the only competitors for the popular favor, as a German firm will be with us and make a very handsome exhibit. This should naturally interest all would-be exhibitors who have not yet made up their minds to do so at once, and communicate with the secretary before it is too late, for the association intends to make the supply department one of the greatest attractions of the show.

The secretary will be glad to hear from any one having novelties of any kind, and desiring to make a display of them.—JAMES CHESTON, JR., Secretary.

Concord State Fair.

The Concord State Fair had quite a fine display of poultry. So large was the entry that it was necessary to increase the housing capacity by sending for a tent. This so delayed the whole matter as to cause much inconvenience, but good nature and patience straightened it all out, so in the end it was just as usual. The best classes were the Asiatic, American, and Game and Game Bantam, all of which attracted unusual attention.

INCUBATORS ON TRIAL

Catalog of **The Perfected Von Culin** free. Practically perfect. Satisfaction or no pay. Successful result of 25 years' experience. Prices \$7 up. Address **THE W. T. FALCONER MFG. CO.,** Sta. J, Jamestown, N. Y.

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"The best opportunities are the earliest ones."

Poultry Farm For Sale.

Established three years; marketed 10,000 ducklings season just passed; all buildings and appliances in first-class shape for carrying on business. Will sell with or without farm. Situated one mile from town of 5,000 inhabitants; two hours from New York. For terms apply to

ARTHUR W. WARREN, MGR., Newton, N. J.

Poultry Printing at the Shows.

During the next two months many shows will be held. Place some business cards on the coops of your prize winners. Fanciers will take and keep them, and no doubt you will receive orders later as a result of this way of advertising. Handsome colored, round cornered cards, illustrated with fine thoroughbred cuts, will attract attention.

Price Postpaid,	100	250	500	1,000
No. 2, 2½x4½,	\$.50	\$.80	\$ 1.45	\$ 2.60
No. 3, 2¼x4½,	.55	.90	1.50	2.70
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A small thing often turns the scale in your favor. Prices of other cards, envelopes, letter-heads, etc., furnished free with samples.

4¢ Name your favorites. **JOHN ENGEL, JR.,** 90 Komorn St., Newark, N. J.

Imported Eggs Will Hatch.

Editor The Feather:

As a periodical advertiser and an old subscriber to THE FEATHER, perhaps a few remarks on the question of C. H. D., Mound City, Ill., "Will Imported Eggs Hatch?" may not be considered out of place.

On April 25th last I left at the office of a steamship company in Baltimore, two settings of my White Wyandotte eggs, which were laid on the 24th, packed in a wooden box with excelsior and cover screwed on. These eggs left Baltimore on the 26th, and arrived at destination in England May 15th, making them twenty-one days old. They were "rested" two days and then set with the result of seventeen chicks alive, four dead in shell, eight rotten, one broken. The steamer was a freighter, which accounts for the long passage; therefore, I think C. H. D. need not worry about imported eggs hatching if stock is right, and the handling normal.

In a letter received last week, written July 26th by the customer, he states that "We have only fifteen of the Wyandotte chicks alive, two died from some cause or other." I am satisfied as shipper, and this is the only kick from the customer.

Hoping to be with you again after a while, and wishing you continued and increased success, I am,

Yours respectfully,
Hanover, Md. F. W. TAYLOR.

Water and Sand.

Too much water and too much sand are bad for young chicks. A supply of fresh water kept constantly at their convenience is a necessity; if allowed to go long without water, when they get some they will gorge themselves and thus an unnatural amount of matter is washed into the gizzard, causing trouble. It is noticeable that the small chick runs frequently to take a drink of water, taking only one little swallow, running away satisfied. It can readily be understood what it means when they stand and gorge themselves so full as to have water run from their mouths when they put their heads down. Dry food on the sand is all right, but when wet or damp food is thrown on the sand or dirt they are apt to get too much sand on account of its sticking to the food as they eat it.

Food for the Chick.

The best food for the young chick is hard-boiled egg, mashed fine, shell and all, mixed with equal parts of bread-crumbs. Too much hard-boiled egg is not good. The reason for feeding shell mashed fine with the bread-crumbs is that the broken shell is good as grit to grind up the mixture. The second meal should be bread-crumbs or small, fine oatmeal; they can have one meal a day of the eggs and bread; the balance of their food for three or four days should be bread-crumbs, small oatmeal or rolled wheat or oats. If bread-crumbs and other dry food are fed to them upon coarse sand it will help them to get all the grit they need.

A Good Way to Feed the Young Chick.

It is better to give them all their damp or mixed food in a clean pan or small feed-box or trough or upon a clean board. Sloppy or wet food of any kind is not good for them. All the mixed or damp food given them should be as dry as possible; sticky dough, somewhat like paste, should never be given them; it would have the effect on them that persons would experience were they to eat uncooked bread-dough. All their mixed food should be as dry and crumbly as possible, so much so that it will break into bits. One of the very best foods for young chicks is well-cooked corn-bread, made with one or two eggs, some baking powder, and mixed with milk, either sweet or sour, served cold and crumbled fine. This would not come expensive for the small chicks, if fed to them with care and not wasted or given to the old hens.

Care When Hatching.

The good, motherly hen will lay close to her eggs and resent disturbance when the chicks begin to pip the eggs. It is best that she should not be disturbed at this time. Neither should she have the opportunity to leave her nest and take the chicks with her. It is necessary that they remain in the nest for twenty-four hours after being hatched. This enables them to gain strength from the food that nature supplies, and also to grow. They are better without being fed until they are a day old, and the warmth of the nest is good for them. After all the eggs that will hatch are disposed of and the chicks a day old the hen may be allowed to remove her flock to her new home.

The New Home for the Chicks.

This should be a dry, warm, clean coop, placed where the water will run away from it when it rains. It should be so constructed as to confine the chicks at will; so that they may be shut in with the mother-hen during wet weather. A board floor is desirable for the coop, covered with sand or dirt; this insures against dampness, the worst enemy the little chick can have. Thousands are raised each year in the A-shaped coops placed on the ground, and many are turned loose to shift for themselves, but when wet, cold days come these are apt to die, while those on the board floor coops prosper. They should not be coddled and cared for too much, for the reason that while proper and reasonable attention helps them to live, too much may make them less hardy.



THE SMITH SEALED LEG-BANDS FOR POULTRY AND PIGEONS.

Made of specially rolled aluminium. No duplicates. Adopted by leading associations and breeders. 10 for 25c.; 25 for 50c.; 60 for \$1; 100 for \$1.50. 100 bands and sealer \$1.75; name breed. Illustrated circular free. 2 samples for stamp. Mention The Feather. W. H. SMITH & CO., Blythedale, Mo.

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We are Wholesale Jobbers of all the best Standard Poultry Specialties and want to quote you prices on large or small amounts.....

"Vigor" Prepared Meat

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Green Bone Cutters

Union Lock Mesh Poultry Fencing

Don't buy any of these things until you get our fine illustrated catalogue of Poultry Supplies, and if wanted in quantity, our special prices by letter.

Johnson & Stokes, Seedsmen
217-219 Market St., Philadelphia, Pa.

EVERY CHICKEN
on the place will be glad and you'll be glad, too, if you buy a

HUMPHREY
Green Bone and Vegetable Cutter.

Open hopper; only three working parts, no trouble to keep clean; no trouble to turn; no packing bones in cylinder.

Your money back if it does not cut more bone, in better condition, in less time and with less labor than any other cutter.

The Humphrey will save enough in your grain bills to pay for itself. You can't afford to buy an old style man-killer. Get a Humphrey and if you don't like it, send it back. Our Book full of poultry pointers and blanks for a year's egg records, sent free.

Humphrey & Sons, Box 24, Joliet, Ills.

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DES MOINES INCUBATOR CO., Buffalo, N. Y.
SIRE HATCH INC., Co., Clay Center, Neb.
E. J. BOWEN, Portland, Oregon; Seattle, Wash.
and San Francisco.

The Clean Nest.

A clean nest is a requirement of much importance. Should Biddie be started on her trip of incubation upon a nest infested with vermin it may be depended upon that the result will be disastrous. As soon as the nest grows warm these vermin begin to increase so rapidly as to destroy all chance of the hen doing what is required of her. When the hen is so afflicted she should be held up by the legs, as gently as possible, and her body well dusted with insect powder. The nest-box should be painted inside with lice killer, and then made up of clean hay or straw. In this way the start is made clean and free from lice, and in the right direction.

How to Keep the Hen Clean.

To keep the hen clean, and free from vermin is an important item toward a good hatch. If properly provided with a dust-bath, close to her feeding-place, she will thoroughly dust her body each day when she comes off for food and water, thus cleaning her body of all insect life. To aid her it is always a good plan to dust her well the seventh or eighth day of her sitting, with the same kind of insect powder formerly used, by means of a powder puffer that the powder may be blown well into the feathers while she rests quietly upon the eggs. No harm can come from throwing some of the powder upon the eggs at the same time.

The Dust-bath.

This should be a good, clean, fine, dry earth; the finer and drier the better. Fine, dry earth is much preferable to any other material. Ashes contain too much alkali; sand too much grit and it is not fine enough; lime has a tendency to cling to the skin and when it gets into the eyes it makes them sore. For these and many other reasons, dry earth for both the dust-bath and the dropping-board is much preferable. When this dry earth has thus answered its purpose and is removed it makes the best fertilizer, preserving as it does the best qualities of the droppings until needed for the land; in addition to this it is both clean and cleansing.

International Poultry Show.

There will be an International Poultry Show held in the Alexandria Palace, London, England, Dec. 18-20, 1901, to which the fanciers of the world are invited, and a special invitation is extended to our American fanciers. The secretary writes as follows:

"Mr. Robert A. Colt, who is known to fanciers on your side, will be pleased to answer any inquiries and to give any information, while my own services are quite at the disposal of American fanciers, who will meet with a very cordial reception if they can see their way clear to come over and see their birds win.

"In the event of American fanciers sending over birds, I do not think there will be much difficulty in arranging a return visit of English fanciers, either in this year or the following.

"Although time is not absolutely pressing, yet I would beg any intending exhibitor to write me promptly, and it would be well if a competent and reliable gentleman could be appointed on

Gornell Incubators and Brooders

Won **GOLD MEDAL** at the **PAN-AMERICAN EXPOSITION**, thus proving themselves worthy of the highest honors in the gift of the management of this great Exposition. This medal was awarded after a long season's competition.

3 3 3 We are proud to have won it 3 3 3

Although good enough to win in the hottest competition, the machines exhibited at Buffalo do not compare in beauty, finish, workmanship, convenience and hatching ability with those which we are preparing to put upon the market this winter.

The entire season has been given up to experimenting by the best talent that ever undertook the development of incubators and brooders. We are now ready to market our improved machines, and confidently submit them to the public. All we ask is careful inspection of these machines. The public is level headed. We depend upon its judgment with confidence.

If you have had trouble with the incubator you used last season, or are preparing to buy a new one, write to us. Catalogue free.

CORNELL INCUBATOR MFG. CO.,

14 Brindley St., Ithaca, N. Y.

your side who would make any necessary arrangements, and with whom I could communicate direct. He should preferably be appointed by some central authority, but in any case he must be well known to, and enjoy the confidence of, American fanciers and exhibitors.

"R. T. THORNTON, Sec'y.
"Middleton Hall, Brentwood, England."

The Care of Hen Eggs.

If the hen will come off the nest of her own accord for food and water and her dust-bath, and return to her eggs in proper time, it is the most desirable; but if she does not do so, she must be taken off each day for this purpose. It is not good for her to remain longer than one day on the nest. She should have food and water regularly in every twenty-four hours. Accumulations in her bowels should be avoided; for if this be permitted it will cause her to lose control and befoul her nest, causing much trouble, as if the eggs become soiled from this or any other cause it will necessitate cleaning them and the nest, which if not done will hinder the eggs from hatching well.

How to Clean the Eggs.

If the eggs while hatching become badly soiled and it is necessary to clean them, a basin of warm water at a temperature of 103 degrees Fahrenheit should be used, but not above this, a little less being better than a greater degree. The eggs should be put into this water and the dirt gently removed after soaking and washing with the hands, then dried with a cloth and put back in the nest, which should first be renewed with clean hay. If not badly soiled, they may be cleaned by gently scraping with a knife or with the fingers. Care is necessary to avoid cracking the shell or jarring the egg, as such an injury will destroy the possibility of a hatch.

LEE'S LICE KILLER
for poultry and stock. An absolute exterminator of chicken and hog lice and mites. Apply with brush to roosts for poultry; sprinkle on bedding for hogs. Lice can't live near it. It kills the last one. Sold by best dealers everywhere. Never in bulk, always in cans with our name and trade-mark.
SAMPLE enough to try it thoroughly **FREE**.
GEO. H. LEE CO., Sole Makers, **OMAHA, NEB.**, or 8 Park Place, New York.



ORR'S LIQUID LICE KILLER
Does the Business Quicker and Better than any other.

So say all who have tried it.
Booklets Free. Agent's Terms for Introduction.
Write to-day.

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DON'T WRITE ME...

Unless you want stock as good as the best at reasonable prices. Order early and get your first pick. I have some bargains in early-hatched chicks. Over two thousand birds to select from. White and Barred Plymouth Rocks, R.I. Reds, Light Brahmas, and White Wyandottes. Also eggs for setting. Write for full particulars.

Goodrich Poultry Farm,

Lock Box 5, West Duxbury, Mass.

B. F. GOODRICH, Proprietor.

Shows and Associations.

The Montgomery Co. (Ind.) Fanciers' Association will hold its annual exhibition at Crawfordsville, Ind., Dec. 19-23, 1901. The judges are Ben. S. Myers and T. M. Campbell. George S. Carver is secretary.

The American Rose Comb Brown Leghorn Club has issued its second annual catalogue, and every breeder of this popular variety will find much of both interest and value within its covers. This club was organized June 1, 1899, and is made up of most enthusiastic Leghorn breeders, who take a personal interest in the organization and are always ready to lend a hand to further the advancement of their favorites. If our readers are at all interested in this variety they will surely wish to join this club after reading the catalogue. The secretary is S. G. Allured, Ionia, Mich., who will be very glad to furnish any information in regard to the club or the R. C. Brown Leghorns.

Mr. James Cheston, Jr., secretary of the Philadelphia Show, desires us to call attention to the fact that in their premium list there is a silver cup offered for the best display of Games other than Pit Games. He writes: "This cup has been delivered to me and is valued at \$50, being a solid silver loving cup, very handsomely gotten up, with three solid ivory handles. It is really a work of art from one of our leading jewelers, Messrs. Bailey, Banks & Biddle. It was an error on our part not to have made this very plain in our premium list so as to do the giver justice." Game

fanciers have yet ample time to enter their Games for this handsome souvenir, as the entries do not close until December 12.

The big score-card show of Indianapolis, Ind., will be held Dec. 4-10, 1901, by the Fanciers' Association of Indiana, who will this year depart from their annual custom of opening their show on Monday and closing on Saturday, and instead, will open on Wednesday, December 4th, and close the following Tuesday. This will enable all exhibitors to ship their stock, both to and from the show, so as not to necessitate its being held over Sunday by express companies, and it is a plan that is meeting with the hearty approval of the prospective exhibitors. S. B. Lane will judge the Mediterranean class and Wyandottes; Ben. S. Myers, the Asiatic class and Plymouth Rocks; Wesley Lanius, Games and Game Bantams; H. C. Green, Turkeys, Ducks, and Geese. For premium list or other information, address the secretary, C. W. Hackleman, 808 Majestic Building, Indianapolis, Indiana.

Breeders and exhibitors should not fail to send for the premium list of the great Trenton Show to be held at Trenton, N. J., Dec. 10-14. A fine collection of silver cups is offered, and they only need be won once to become the property of the winner. A handsome lot of medals is also offered along with liberal cash specials. The association has secured a fine, well-lighted hall, right in the heart of the city, thereby assuring a good attendance, and, consequently,

a good chance for business among the exhibitors. The services of McGrew, Parker, Purdue, Nevius, Ungerer, Jager, Stanton, Tiemann, and Kennedy have been secured to place the ribbons. The White Rock Club, Andalusian Club, American Indian Game Club, and Water-Fowl Club will offer their State trophies at this show. Entries close Nov. 25th.—WALTER S. GLADNEY, Jr., Secretary.

We are in receipt of a circular from the Rhode Island College of Agriculture and Mechanic Arts at Kingston, R. I., calling attention to their special course in poultry keeping. Mr. J. A. Tillinghast, who is in charge of the agricultural department of the college, writes as follows: "This course is designed to give instruction in the arts and sciences underlying successful poultry keeping; also the latest and best in practice and management as given by the most successful specialists in the various lines of work. The students are thus enabled to gain a large amount of practical knowledge as well as theory, for they come in direct personal contact with such men as I. K. Felch, and many others ranking high in the poultry world. We shall aim to make the coming course more practical and helpful than ever before, if possible, and hope to be some small help in advancing the interests of the great industry of poultry-raising."

The sixth annual exhibition of the Elmira Poultry Association will be held in Elmira, N. Y., Dec. 17-20, 1901. We have secured Stancliff Hall, corner



This is One

page reproduced ($\frac{1}{4}$ size) from the 1902
Prairie State Incubator Catalog.

This gives but a faint idea of the
many good things it contains.

50 tinted plates.

4 original paintings reproduced in colors.

Over 700 new and original photographs taken
by our own artist.

Then there is all about how to hatch, grow,
feed and market fowls of every kind.

Tells also about the

"Prairie State"

—used exclusively by U. S. Government;
used exclusively on the largest poultry
and duck farms in the world;
has taken 342 first premiums—more than all
other makes of incubators combined; built
in the largest exclusive incubator and brooder
factory in the world. The whole subject
will interest and instruct you.
Send for Catalog No. 40

**Prairie State Incubator Co.,
Homer City, Pa.**

of Baldwin and Carroll Streets, which gives us a large show-room in which the light is excellent and ventilation good; and shall be able to coop 2,000 birds without crowding. Already many cash and special premiums have been offered, which, in addition to the regular premiums, will make it worth your trouble to show with us. Mr. J. H. Drevensedt and Mr. George H. Burgott will place the awards, and all the birds will be scored unless disqualified. This Association has held very successful shows, and paid all premiums in full. This year we propose to pay premiums the last day of the show. We own a fine lot of exhibition-coops, and shall take great care in arranging them. Should you conclude to show with us, we can offer you some strong competition. Your money if you win, and a good time if you attend. Our premium list will be out Nov. 15th.—H. E. BENEDICT, Secretary.

*To Members of the American
Black Minorca Club:*

I beg leave to announce that the American Black Minorca Club will hold its annual meeting at Philadelphia, Penn'a, January 1, 1902, at 2 p. m., in Auditorium Hall. Through error on our part we failed to inform the secretary of the Philadelphia Show of date of meeting, hence the change from that as published in Philadelphia Show catalogue. There will be the largest number of Minorcas at this show ever brought together in America, and I earnestly solicit all members to send in a liberal number of birds to compete for the

numerous specials offered by the Philadelphia management and friends of the club. As entries close on the 12th of December, it will be well to send in entries as early as possible. In addition to specials published in Philadelphia catalogue, J. B. Romig, of Reading, Penn'a, offers \$2 cash for 2d hen; C. N. Bliss, Minneapolis, Minn., \$1 each for 3d, 4th, and 5th hens; C. N. Speakman, Coatesville, Penn'a, \$2.50 for best cockerel. Open to club members only. If you have not received catalogue of Philadelphia Show, write James Cheston, Jr., Chestnut Hill, Penn'a, who will be pleased to send you one.—CHAS. L. BLANTON, Sec'y and Treas.

Making the Buff Plymouth Rock.
Editor The Feather:

"Way down East," where nearly all the American varieties have originated in the later '80's, R. G. Buffinton, of Fall River, Mass., and Dr. Aldrich of the same place, started with the intention of trying to produce a fowl of, the then, is now, and as it probably will be, Plymouth Rock shape, with a surface-color, that is now, and we feel safe in adding, the most popular plumage-color of any domestic fowl that has ever been. That color is *buff*.

Unquestionably neither of these gentlemen had the least thought that their efforts would be so well appreciated, and it is probably as surprising to them as to others, the way the Buff Plymouth Rock has worked its way to the front rank as a popular variety and one which is deserving of the patronage of poultry-

men, whether they are fanciers only, or they who are wanting the variety which is adapted to the utility side as well.

In the Buff Plymouth Rock of to-day, we find a much different fowl than at the time they were first offered to the public, also than at the time they were admitted to the Standard in '93. At that time, shape and size varied greatly, some being of a short, chunky, compact type, which were about one and a half under weight, while others were long, gaunt, and drawn out and were nearly as much over weight. To-day this is vastly different; of the Plymouth Rock type we find the greater majority and up to the weight the Standard calls for. This insures quick growth, as it is a recognized fact that no variety or breed of fowls will average as great an equal weight at a given age, whether it be the broiler, roaster, or matured fowl, as will the Plymouth Rock.

The Buff variety have always been pointed to as wonderful egg-producers, especially in the winter. This added to the great demand for show specimens, places them as a variety that should be considered by those who intend starting with poultry.

The Buff Rock Club catalogue contains many interesting and valuable articles relating to them, and will be sent to any address by the secretary of the club,—W. C. DENNY, Rochester, N. Y.

"THE FEATHER is O. K., and a fine poultry journal. Let us have more on the finest breed on earth—the Light Brahma." H. C. BARCLAY, Beaver, Pa.

GOLD MEDAL AND HIGHEST AWARD

AT THE PAN-AMERICAN, OCTOBER, 1901,

3 3 WERE PLACED ON 3 3

The Cyphers Incubator.



The Cyphers Incubator is sold Under a Positive Agreement that it will do satisfactory work in the hands of every purchaser who will give it a fair trial, or it can be returned and the price paid will be refunded. Agents for the Cyphers Incubator are authorized by contract to stand back of this Guarantee in every particular.

Illustrated, descriptive, 32-page circulars, English, German, or Spanish, Free on request. Complete Catalogue and Poultryman's Guide, 224 pages, 8x11 inches, weighing one and a quarter pounds, 10 cents in stamps for postage. Ask for Book No. 6, and address our nearest office.

CYPHERS INCUBATOR CO.,

BUFFALO, N. Y.,
Cor. Court and Wilkeson Sts.

CHICAGO, ILL.,
325 Dearborn St.

BOSTON, MASS.,
34 Merchants Row.

NEW YORK CITY, N. Y.,
8 Park Place.

WE DO not attach great importance to medals and awards, no matter by whom given. What we do swear by is the fact that the Cyphers is to-day used with uniform success on Twenty-six Government Experiment Stations in the United States, Canada, Australia, and New Zealand; also by America's leading poultrymen and by many thousands of persons in every walk of life. The Cyphers Non-moisture, (original and only genuine) Self-ventilating, (diffusive principle fully covered by patent) Self-regulating Incubator is now

THE STANDARD HATCHER OF THE WORLD.

It is used in every country on the Globe where poultry is produced for market and is giving satisfaction "the world around." (Ask for foreign testimonial sheet.)

THE BUSINESS WORLD

As Viewed from the Columns of
The Feather.

A CORDIAL INVITATION.

The annual catalogue issued by E. M. & W. Ferguson, proprietors of Fishers Island Farm, Fishers Island, N. Y., is unusually attractive this year. It contains very interesting views on the Island and descriptions of the farms and their celebrated birds, that all our readers should see. Besides their immense system of farms, the Messrs. Ferguson are building up an ideal summer resort, and already the many advantages of the Island have attracted people of wealth and culture who are not only filling annually the hotels and cottages, but are building permanent summer homes.

Of the fine stock bred by Fishers Island Farm it is surely unnecessary for us to speak at length. It is much too well known. Their turkeys especially are unanimously acknowledged to be the standard of the world. Their catalogue says: "The proprietors and manager extend a cordial invitation to the fraternity at large to visit Fishers Island Farm and judge for themselves whether it is fairly entitled to its reputation."

A SATISFIED CUSTOMER.

Mr. Charles Nixon, Washington, N. J., has received the following letter from one of his customers, which we take pleasure in printing:

Lineboro, Md., Oct. 27, 1901.

Mr. Chas. Nixon,

Dear Sir: The twenty-four White Wyandotte pullets arrived Thursday in splendid condition. Their beauty was commented upon by quite a crowd at the station. Let me thank you for your fair treatment and prompt shipment. I shall, in future, recommend Charles Nixon and his White Wyandottes. Wishing continued success you so well deserve, I am,

Yours very truly,

HENRY W. KRAMER.

"WINTER EGG-PRODUCTION."

This is the title of a little booklet published by the Ovamead Manufacturing Co., of Rochester, N. Y. It is written by Mrs. Nellie Hawks, of Friend, Nebr., the well-known writer and authority on poultry matters. It gives her experience in using Ovamead and is a strong endorsement of its egg-producing qualities. Our readers should send for a copy and see what Mrs. Hawks has to say. The following testimonials also speak well of this article:

Mr. J. H. Petts, editor *Poultry Topics*, Warsaw, Mo., February, 1896: "During the past month the editor of this paper had occasion to give Ovamead a fair trial, with perfect success, in fact it seems to do wonders."

Adolph Newberg, Archbold, Ohio, March 22, 1901: "My hens lay twice the number of eggs they did before using Ovamead."

THE BLAIRSVILLE INCUBATOR.

We are in receipt of the descriptive catalogue issued by the Blairsville Incubator Company, of Blairsville, Pa., whose ad will be found on another page of this issue. These machines have been on the market since 1893, and if we may judge by the many flattering testimonial letters published in their catalogue, have given entire satisfaction to

those who have used them. Each year the machine has been improved until now the manufacturers consider it about as perfect a machine as can be made, and they give a positive guarantee with every machine sold. They also manufacture brooders, lamps, egg-trays, and other supplies. Send for their catalogue and investigate their machines fully before purchasing.

FINE STOCK.

Mr. Geo. E. Hayes, Prattsburg, N. Y., writes us as follows: "I send you a few of my customers' winnings of late. Black Minorcas, first cock, first hen, first cockerel, first pullet, at Troy, Pa. At Mansfield, Pa., first pair fowls, first pair chicks. In Barred Rocks first on chicks. The judge spoke very highly of their barring." See Mr. Hayes' ad and write him for some of his fine stock.

READY FOR BUSINESS.

In writing us on other matters George H. Northup, of Raceville, N. Y., requested us to say that he has recovered from an attack of fever, which confined him in bed for six weeks, during which time his business was almost wholly suspended, but he finds that his flocks have not suffered during his illness; instead, his chicks are large and fine. Mr. Northup writes that he has never at any one time owned so many large, fine Minorcas as at present, and he is now ready to fill orders promptly with a very superior class of birds which are strongly bred for laying and show purposes.

AT REDUCED PRICE.

This is a day of scientific poultry raising. The man who makes his poultry pay depends largely upon some good, dependable supply house for many aids to his profit. Such a concern is the Harvey Seed Co., whose catalogue has just come to hand. This whole line of supplies is a good one, but the proposition they are offering this year in Cut Clover Hay is particularly interesting, coming as it does when there is a general shortage of this crop. They are fortunate in having an abundant supply of superior quality, and their advertisement shows that they are ready to give their patrons the benefit, by selling at a reduced price. We suggest that every reader write for their catalogue, which is sent free. Address, Harvey Seed Co., 21 Ellicott St., Buffalo, N. Y., and mention this paper.

THE "SUCCESSFUL" BRANCHING OUT.

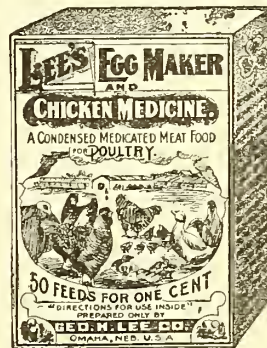
Perhaps one of the strongest arguments in favor of the use of the incubator, is the immense success and growth of some of the more successful firms. People would not buy incubators as they have been buying them by the thousand, if they were not as near perfect as it is possible to make them. One of the firms who are deservedly getting a large slice of this success is the Des Moines Incubator with their famous "Successful" Incubators and Brooders.

This business is growing so rapidly that they have found it necessary to open a branch office at 101 and 105 Erie St., Buffalo, N. Y., to enable them to take care of the large eastern business that is coming to them. Buffalo is chosen because of its central location, facilities for shipping, and low freight rates, all of which will materially benefit purchasers of Successful machines.

This office is in charge of Mr. William C. Denny, who needs very little intro-

duction to most of our readers. A master mechanic in the hatching and raising of poultry, as well as secretary and treasurer and pioneer organizer of the Buff Rock Club, he is at the same time a broad "fourteen carat" business man. You eastern fellows will be taken care of in a way that will warm the cockles of your hearts when you visit the Successful plant at Buffalo, and you are invited to make this your headquarters when in Buffalo. If you are not planning to be in Buffalo in the near future, write Mr. Denny a letter. He will gladly supply any information you may want on the artificial hatching and raising of poultry.

Finally let us say that the Successful machines for 1901-1902 are up to the high standard always set by this house, and are backed up by an unqualified and unequivocal guarantee. Write and let them tell you their story.



A Big 42 Oz. Package

for 25c; a 25 lb. pail for \$2. Not only the largest but the best. No meal or cheap filler in Lee's Egg Maker. We use Granulated Blood (deodorized) as a base or body for the spices, salts, roots, herbs, etc. It supplies meat food; keeps fowls healthy, vigorous and profitable; brings the eggs when all else fails. If not on sale in your town don't take cheap substitutes but send to

GEO. H. LEE CO.,

Or 8 Park Place, New York.

Omaha, Neb.

by feeding her with
**Bowker's
Animal Meal**

It furnishes the material to make eggs with. It will make your hens lay, and your chickens thrive. It's the best and cheapest of all poultry foods. Try it. Enough for ten hens, three months, \$1.00; four times as much, \$2.25. We send booklet, "The Egg," free.

THE BOWKER COMPANY,
Dept. No. 3, 43 Chatham St., Boston, Mass.

**More Eggs
Larger Eggs**

Bowker's Animal Meal is the best food for fowls. It is better than scraps, because it is finer, cleaner, contains less water, more bone and more protein.

It is better than bone alone, because it supplies bone in connection with thoroughly cooked meat. It is better than shells, because it supplies not only the lime necessary for the shell, but also the constituents required to make the meat of the egg. For sale by dealers generally.

"HEN AND CHICKS."

A Great Picture on a Great Book About
a Great Machine.

We reproduce in a half-tone herewith, an oil painting which many competent judges pronounce the greatest poultry painting which has appeared in the last decade. It is Mr. Ben Austrian's \$2,500 "Hen and Chicks" picture, secured by Humphrey & Sons, for reproduction on the cover of their new bone cutter catalogue. This picture when exhibited in the East attracted universal attention, and is now on the way to Berlin where it will be shown this winter in the German exhibitions. Humphrey and Sons may well consider themselves extremely fortunate in securing so valuable and so attractive a painting for their book. It is reproduced in the exact colors of the original and is a fitting setting for an extremely interesting catalogue.

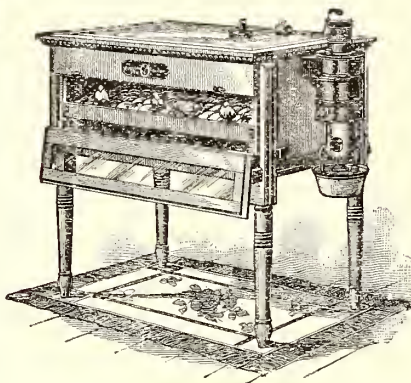
Like the Humphrey book of last year, it contains, in addition to much valuable matter on the care and treatment of fowls for money-bringing results, a set of blanks for keeping a record for a year of every transaction in the poultry-yard. Of course considerable space is devoted to the open hopper Humphrey green bone and vegetable cutter, the machine which in so short a time has leapt to such great popularity among poultry keepers all over the country. We attribute the success of the Humphrey largely to its extreme simplicity; it has practically only three working parts: the cutter-head which carries the knives, the pivot-wing which holds the bone in position, and the open hopper in which the bone is placed for cutting. This hopper is really an "open hopper," a term originated by Mr. Humphrey. There are no partitions nor screws nor apartments in it, consequently, you don't have to chop the bone into little pieces before you begin cutting. The machine is ready to cut when you are ready and as the operator controls the feed, she can cut as fast or as slowly as she likes. We say "she" because the Humphrey turns so easily that in a majority of cases it is used by the women of the family. It is backed by a

guarantee to cut more bone in better condition, in less time, and with less labor than any other bone cutter, or the purchaser's money is refunded. Isn't that a fair proposition?

We know that every reader of THE FEATHER will be interested in this catalogue, and we know it means money if you buy a Humphrey. Send for the book. Address, Humphrey & Sons, Joliet, Ills.

THE NEW WOODEN HEN.

The illustration shown here is of the famous New Wooden Hen now known the world over as the most successful of all small hatchers.



It is now six years since the Wooden Hen put in its appearance, and each season it has come forward with improvements that increased its popularity until the sales are nearing 40,000. For the coming season long legs have been added to make it more convenient; also a moisture diffuser, which overcomes the question of how much artificial moisture should be supplied. A few minor changes have been made in the general construction, and with the above improvements, it is a most perfect little hatcher. Three sizes are offered for the coming season, 50, 100, and 200-egg capacity, and the prices are surprisingly low.

Send at once to Geo. H. Stahl, Quincy,

Ill., for his beautifully illustrated catalogue, which also contains a most interesting chart showing the "Development of the Chick," in natural colors.

A "Successful" Success.

(Deacon Lane's Story.)

I s'pose you've often set a hen,
Over an' over, time an' again.
So have I, but never yet
Known a time when I could bet
How long that hen was goin' to set.
Set a hen on a peck o' cobs,
Brickbats, pebbles, ol' door-knobs,
An' she'll set an' set in spite o' you,
Can't break her up, whatever you do:

But set a hen on some high-priced eggs,
Soon's she feels 'em 'tween her legs
Suthin' makes her feel like scratchin'
An' that ends all her hopes o' hatchin'.
When that happens I declare
I sometimes feel that I must swear.
I'll say right here—or any place—
A hen's no instrument o' grace.

But s'posin' by some accident
After three weeks she has spent
A settin' you do get some chicks
That hen knows some other tricks.
She will jest take all kinds o' pains
To get ketched out in pourin' rains
Till all her chicks are drowned dead
All but one—an' as I said
Sometimes I've been so mad I vum
I was jest on the p'int o' sayin' dum'.
When settin' hens is on the place
'Tis hard to hold to savin' grace.

'Long las' spring—some time in May—
I met a man from Ioway,
An' he was tellin' as how he'd seen
Chickens hatched in a machine
He said 'twas made o' glass an' wood,
An' had four legs so 't could be stood
In a corner, anywhere
An' would do its hatchin' there.
He said the cost warn't very much
An' 'twould hatch to beat the Dutch.
He said the makers give away
A book 'twould make it plain as day
How to make our profits greater
If we'd use an incubator.

So my pen in hand I took,
Writ an' got a pictur book,
Read it through from front to back,
'Twas convincin' for a fac'.
An' at last I sent and got
A "Successful"—tell you what
When I got it I was proud,
But the neighbors all allowed
'Twas a sin an' ag'in natur',
Hatchin' with an incubator.

I read the rules an' set her goin'.
Folks aroun' done lots o' blowin',
Seemed to think it mighty funny,
Watchin' a fool get shet o' money.
I jest kep' on a sawin' wood,
Follered d'ections near's I could,
Watched the lamp and regulator,
Kep' a watchin' that incubator.
I warn't talkin'—I kep' still
Watched things purty close until
One day as I was a-peepin'
At them eggs I heerd a cheepin',
Then I watched a little spell
An'—a chicken broke the shell,
An afore the day was done,
Them eggs hatched out—all but one,
Had a drawer crowdin' full
Of fussy chickens, soft as wool.
I know it warn't the proper thing
But I couldn't help cuttin' a pigeon wing.
An' then I called the neighbors in
'Specially them that talked ag'in
Hatchin' chickens in machines,
Proved to them they didn't know beans,
Made 'em look like small pertaters
Runnin' down them incubators.

Waal, I kep' the thing a-goin',
Every hatch made a good showin'
An' the neighbors 'round about
Kep' on findin' some things out.
When they see my chickens grow
Like ill weeds they wanted to know
Ef I could do much better when
I used machines instid o' hens.
I told 'em hens was not a patchin'
When a "Successful" was put to hatchin'.

Is the "Successful" a success?
Waal, I certainly should say yes
An' more than that; one on the place
May keep a man from fallin' from grace.

The "Successful" Incubator is made by the Des Moines Incubator Co., Box 3, Des Moines, Iowa. See their ad and write for catalogue.



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Washington, D. C.

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GEO. E. HOWARD & CO.

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Advertising rates per insertion 15 cents a line, agate measure, 14 lines to an inch. Discount card on application.

GEORGE E. HOWARD, Editor.

SUBSCRIBERS. When a subscriber finds this item marked, he will understand that his subscription has expired, and that he should renew promptly before the next issue is published.

ADVERTISERS Must have copy in for change of advertisement not later than the 5th of the month. Copy for new ads must be received by the 15th of the month to insure insertion.

TO AGENTS. We offer the most liberal terms to agents, and our plans and arrangements are so liberal this season that there will be money in acting as a representative of THE FEATHER. We want new agents in every neighborhood in which we are not already represented. It will pay you to write us at once and get our terms. Good profits are to be made from the sale of our publications, and it will pay you well to investigate. Write us for full particulars and free outfit.

Remittances should be made by postal money order, registered letter, bank draft, or express money order.

All remittances should be made payable to

GEO. E. HOWARD & CO.,

305 10th Street N. W., Washington, D. C.

Entered at the Post Office at Washington, D. C., as second-class matter.

DECEMBER, 1901.

"A MERRY CHRISTMAS."



T THIS season of the year every heart is turning towards the blessed Christmas-tide. It matters not whether the heart is sad or whether the heart is glad—all hearts welcome and hail with joy the brightness of Christmas. It is our greatest and best of holidays, drawing together all mankind as no other season of the year can do. Indeed, we ought all to be happy, for in no other way can we show the great appreciation that we should for the coming of the

King of Kings. THE FEATHER is happy this season and with a just reason, too, and it wants all its readers to be equally as happy this Christmas-time. Our front cover is covered all over with our happiness and we feel that our readers will think as we do in this matter. The little ones who have just come into the world are bright and pleasing examples of the season, and their cheerfulness can but awaken a responsive chord in the hearts of our numerous readers for the good things that are here and still to come. THE FEATHER's Santa Claus is loaded down with gifts for all, such as have never been before. His smile is as jolly as can be, and his confidence was never greater in the beautiful presents he will distribute this season. Now, let us all be happy! To each and every one THE FEATHER wishes a very Merry Christmas.



WISHING YOU A VERY
MERRY CHRISTMAS
AND A HAPPY NEW YEAR.

The January Feather.

The January number of THE FEATHER will be a beautiful edition. The cover-page will contain a color-plate of a Black Minorca female. This is a companion picture to the Black Minorca male published last June. These two pictures were favorably spoken of by the members of the American Black Minorca Club. Other attractive and interesting matter has been especially prepared for this number, and altogether it promises to be a blue-ribbon winner. Advertisers should not be tardy in sending in their copy for this number. Extra inducements are offered to advertisers, and those seeking them should write us without delay.

Editorial Ignorance.

Farm-Poultry has really outdone itself in editorial ignorance in its issue of October the fifteenth. If its editor, Mr. JOHN H. ROBINSON, had tried his utmost he could not possibly have appeared as ridiculous as he does in his present effort to struggle through something he doesn't know anything about. The readers of this valuable (?) paper are indeed a good-natured people to pay a dollar a year for such unreliable information as has lately been served them twice a month. Mr. ROBINSON has never personally made a success of anything he has ever tried. His efforts at farming and chicken culture were clearly shown in his exhibit of utility (?) Buff Leghorns a year or so ago at the Boston Show! They were, indeed, a mongrel-set. His same strenuous efforts are shown semi-monthly on the editorial pages of *Farm-Poultry*. Nothing is well done except he does it, and everybody else is nobody at all. This is always the case with a man who has had greatness thrust upon him, or else is suffering with a bad case of indigestion and dyspepsia. It is likely the latter complaint that effects our Boston editor. Mr. ROBINSON did not like the colored illustrations which the editor of THE FEATHER made for the two bulletins on Plymouth Rocks and Wyandottes. This was to be expected. It would not have been Robinsonlike to have done so, and, what's more, he would have been the last person in the fraternity whom we would look to for advice—for the reason that he doesn't know. At present he is in a frenzy because THE FEATHER is publishing on its front page a reprint of these self-same illustrations. Why, my dear sir, this is a privilege that any publisher who pays the money can enjoy. Is your knowledge so limited that you did not know that public documents were public property—provided you paid the cost of same? The

Fifty Pens of this Season's Breeding Stock For Sale.

In quantities to suit purchasers. Hundreds of cockerels and pullets after Sept. 15; farm grown, with all wants supplied to produce the finest possible stock. Special prices on trios and breeding-pens; and **REMEMBER**, my stock is line-bred since 1883 for **RESULTS**—32-page descriptive catalogue free. Winners wherever shown—New York, Boston, Chicago, Hagerstown, Cincinnati, Providence, Worcester, Hartford, New Haven, etc.

S. C. White Leghorns, S. C. Black Minorcas, Barred Rocks, White Rocks,
White Wyandottes, Light Brahmas.

ELM POULTRY YARDS, Hartford, Conn.

STATE AGENT FOR THE STAR INCUBATORS.

thirty-two cuts **THE FEATHER** used in the reprint of the bulletin, "Poultry-Raising on the Farm," in the November number, cost \$8.25 for the set. This is no cut rate but is open to all. Two or three dozen other enterprising publishers availed themselves of the privilege and have used the cuts, while the editor of *Farm-Poultry* is wondering how the thing is done.

On the same basis **THE FEATHER** is using "By courtesy of" on the color-plates it prints. We give this piece of information to clearly show the ignorance of the editor of *Farm-Poultry*. He has a little world of his own in which he lives, but it is very small, indeed. He always manages to pick up some correspondent who wants to know this or that, and displays his wonderful (?) knowledge in a way that would make a school-boy blush. Surely, **MR. ROBINSON** needs look up a few things in this life or he will come out of it in a greater plight than did Rip Van Winkle after his famous sleep. Many thousands of the colored plates have been issued and many thousands more of them will be turned from the presses in the future. The Agricultural College of the State of Georgia has used 30,000 of them in its annual report; they pay for same, and they say "By courtesy of" as all good citizens do. Negotiations are now pending for 60,000 copies of them for a foreign publication. The comment from our foreign contemporary was that "this effort at color-work has surpassed all other American attempts in delineating fowls in their correct plumage." Surely, **MR. ROBINSON**, you see all are not looking through the same lenses you use, and we would suggest that you learn your text thoroughly before going before your congregation to preach, or you will always appear in the same bad light. Don't think you are the only plum on the tree or some little boy will come along and shake you off, and then where will you be?

The Great Hagerstown Show.

This season's show of poultry at Hagerstown was by far one of the prettiest turn-outs we have seen in a long time. The great gathering of feathered beauties were decked out in their prettiest clothes and did the honors gloriously. It is undoubtedly a great event, and the winners were choice specimens of their kind. It was our purpose to publish a complete report of the show, but our corrected list of awards was delayed beyond our date of publication, so we will not go into a partial report this month. We publish in this number a rather correct portrait of the well-known and jovial superintendent, **MR. JOHN L. COST**, for the benefit of our readers who have not his acquaintance. Those who do know him will recognize his favorite pastime as is evidenced by the accompanying drawing. He is undoubtedly riding his hobby here and it is really delightful to see him astride it. The time of the drawing is just when both he and his birds have made a clean breast of things and are glad they went. So very many fellows are sorry they went—but it is never so with **Friend COST**. Even now he is planning for next year's show,

and he says it will be a show without the supplementary parade which usually happens each year. The enthusiasm of this year's parade was beyond question, and a half-hour's marching and counter-marching brought a contact of forces that awakened the neighbors for squares around. The battle was soon over but its memories live still, and shall ne'er be forgotten.



MR. COST RIDING HIS HOBBY.

Best of Twelve Others.

Among the complimentary letters recently received by us, the one from **MR. J. W. MORSE**, Epping, N. H., is deserving publication. He says: "**THE FEATHER** has certainly improved greatly since my wife (**MRS. M. E. MORSE**) took it. I really think the November number is worth a great many dollars to a beginner. Practically it is the most useful number of a poultry paper I have seen for some time. Although I am a subscriber for twelve other poultry papers, and write for three, I think I can find room for **THE FEATHER** and time to read it. Yours is a grand idea to illustrate an article; pictures speak sometimes louder than words. Send me another November number, as I sent my copy to a young friend down in Maine, and insert enclosed ad three times." Another of our patrons who surely should know whereof he speaks, says: "After advertising over twenty years in various poultry and other papers, I find **THE FEATHER** pays best.—**J. H. MAYER**, Lancaster, Pa."

Classified Advertisements

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Three times.....	1.00
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READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 2 cents each for one insertion, or 1½ cent each for each insertion when run three times or more. Initials and figures count as single words.

PLYMOUTH ROCKS

"PARALLEL-BAR" ROCKS. Eggs, \$2 per 13; \$3 per 100. Gardner, Thompson, Bradley, and Montauk stock. Illustrated circular. H. T. BROWN, Box 471 B, White Plains, N. Y.

BUFF PLY. ROCKS.—Eggs, \$2 per setting, from the best pen in the South. My prize-winning hens and pullets at Washington, Hamilton, Rockville, and Laurel, mated with a grand cockerel purchased from J. D. Wilson. JOHN H. JANNEY, Brighton, Md.

EXHIBITION BARRED ROCKS. Stock direct from Thompson, Miles, and Gardner. Eggs from my prize-winners, \$2 per 13. E. B. LEEK, Amagansett, L. I., N. Y.

AT ELMIRA, Dec. 1899, and Nov. 1900, on Barred Rocks we won 8 firsts, 7 seconds, and 5 thirds. Choice breeding stock at \$2 up. Eggs, \$2 per setting. KRAFT BROS., Box 536, Hornellsville, N. Y.

NOYES' BUFF ROCKS win wherever shown. No more eggs. Stock for sale at bargains. Address, P. W. NOYES, Quaker Hill, Conn.

BARRED PLYMOUTH ROCKS.—The kind everybody wants, large, vigorous and handsomely barred, yellow legs and grand shape. Hens and pullets that are sure to please, \$1.50 each. Big, vigorous, clear barred cockerels \$3.00 each. WM. H. CYPHERS, Crystal Farm, Washington, N. J.

MRS. C. W. HARRINGTON, Harford Mills, N. Y., offers her entire stock of Buff Rocks (Burdick's Nuggets), 25 choice breeding birds and 50 March chicks at bargain prices.

BARRED ROCKS (Hawkins, Thompson). White Rocks (Hawkins). Choice breeding cockerels a specialty. Also Chester White Pigs and Collie Puppies. LYON & SONS, Spring Hill, Pa.

BUFF PLYMOUTH ROCKS that are buff to the skin. Cockerels, \$3 and up; pullets, \$2. Write your wants. ARTHUR H. BOLTON, Ashuelot, N. H.

OAKGROVE POULTRY YARDS.—Barred, White, and Buff Plymouth Rocks. Young stock for sale from prize-winners. Cockerels, \$1 each; 6 for \$5. Pullets, 75 cts. each; 12 for \$8. Also a few choice Pekin Ducks and Toulouse Geese for sale. MRS. R. P. HINES, Olney, Md.

BUFF ROCKS EXCLUSIVELY that are Buff Rocks, not Rhode Island Reds. 8 years' experience breeding. 50 selected cockerels; also a limited number of pullets. A. A. GROFF, Leiderachville, Penn'a.

150 MAY-HATCHED BARRED Plymouth Rock and White Wyandotte cockerels for sale cheap if taken at once. Stock fine. E. JOHNSON, Dolington, Bucks Co., Pa.

BARRED AND WHITE PLY. ROCKS from the best eastern strains. Some extra-fine breeding cockerels for sale at \$2 and \$3 each. We guarantee satisfaction. BRIGGS BROS., Box 75, Centerville, R. I.

BARRED PLYMOUTH ROCKS Exclusively for 12 years. Great winter layers. Proper shape, size, and color. Old and young stock at fair prices. Satisfaction guaranteed. F. S. WEINHOLD, Denver, Pa.

EXHIBITION BARRED PLY. ROCKS. 200 show and fancy breeders for sale. My pullets are from a line that has won more prizes at New York in the last 7 years than all others combined. My cockerels for good size, shape, narrow blue bars, bay eyes, and yellow points can't be beat in America. If you want show birds and fancy breeders one-half cheaper than you can get them elsewhere, write me to-day. S. L. HETRICK, Punxsatawney, Pa.

STOP, look, and listen to what I say! I breed good Barred Rock cockerels and sell them reasonably. WM. B. WISLER, Pine Iron Works, Pa.

BARRED ROCK EGGS from the prize-winning pens of Leffel and Gibson for sale; also Single Comb Brown Leghorn eggs. Write me for prices. E. P. FRALEY, Hendershot, O.

LEGHORNS

50 C. per doz.; \$3.50 per 100—Wyckoff strain, White Leghorn eggs. New illustrated photo circular free. New plans, new methods. BISHOP'S POULTRY FARM, Box 38, Cheshire, Conn.

PRIZE-WINNING S. C. Brown Leghorns. 10 prizes on 5 entries at Rochester, 1901. Three 1sts, four 5ths, and five specials. Fine stock score into the 90's for sale cheap. Eggs, \$1 per setting. FRANK G. RICE, 9 West Avenue, Dansville, N. Y.

PLEASANT VIEW POULTRY YARDS.—Breeders of Rose Comb Brown Leghorns that are winners at all the leading shows. 15 good breeding cockerels for sale at \$2.50 each. Orders booked now for eggs for hatching, \$1 per 13. Address, J. B. HOFFMAN, Mgr., Sanatoga, Pa. W. G. FRONHEISER, Prop., Pottstown, Pa.

S. C. BUFF AND WHITE LEGHORNS. Some very fine cockerels for sale \$1 to \$5 each. Eggs in season, \$1 per 13; \$2 per 30. PINE GROVE POULTRY YARDS, Jay, Essex Co., N. Y.

MY SPECIALTIES are Single Comb White Leghorns and Buff Plymouth Rocks. Cockerels now ready. Good stock and reasonable prices is my motto. Write. T. D. SCHOFIELD, Woodstock, N. H.

SINGLE COMB BROWN LEGHORNS. Winning 1900: Hagerstown, Rockville, Laurel, Md.; Hamilton, Va. 7 firsts, 7 seconds, 7 thirds, 4 fourths. Grand Leghorn Silver Cup at Hamilton for best display. Eggs, \$2 per 15; \$3 per 45. Stock for sale. BERWYN POULTRY ASSOCIATION, J. Fred. Keefeauver, Sec'y, Berwyn, Md.

E. N. MORRIS, Farm Grove, Pa., S. C. Brown Leghorn specialist, has 30 pullets, 25 cockerels for sale. \$3 to \$10 each.

ROSE COMB LEGHORN COCKERELS for sale. Will win at the leading shows. W. C. VALENTINE, 524 Fulton St., Jamaica, N. Y.

SILVER SPRAY POULTRY FARM.—Breeder of S. C. White Leghorns and White Wyandottes. Eggs and stock for sale in season. Eggs, \$2 per 15; \$3.50 per 30. Satisfaction guaranteed. JOHN M. YERGER, Gilbertsville, Pa.

SINGLE COMB WHITE LEGHORNS. Same breeding won 1st cock; 1st, 2d pullets, Lynn, 1900. Cockerels or pullets, \$2 each; trios, \$5. MRS. ARTHUR NUNAN, Cape Porpoise, Me.

BRIGHT'S (Grove Hill) STRAIN SINGLE Comb Brown Leghorns, 1st premium winners at Virginia State Show, Norfolk, 1900 and 1901. Fine-bred cockerels that show that much-desired stripe in both hackle and saddle; also a few choice females. Eggs in season, \$2 per setting. Satisfaction guaranteed. For further information address, JAS. A. DAVIS, Portsmouth, Va.

ROSE AND SINGLE COMB WHITE AND Brown Leghorns, Light and Dark Brahmas, Buff Rocks, White Wyandottes, Beagle Hounds. F. S. WHITMORE, Addison, N. Y.

WYANDOTTES

SHOEMAKER is breeding White Wyandottes that are A No. 1, and has a good foundation from the best breeders for both fancy and utility and some of the stay-white kind. No hens or pullets for sale. Will have some cockerels later at from \$1.50 to \$5 each. W. E. SHOEMAKER, Laceyville, Pa.

MY ENTIRE STOCK of Ribbon-Winning Golden Wyandottes for sale. A grand chance for some one. Write quick. JESSE A. MOON, New London, Conn.

IF YOU WANT SCRUBS, don't write me. I breed and sell thoroughbred Silver Laced Wyandottes only. Eggs from high-scoring winners. Surplus stock all gone for this season. J. M. HAMBLIN, Highlawn Farm, Vienna, Fairfax Co., Va.

DUSTON STOCK.—Cockerels hatched from eggs from Duston's best pens. Fine, strong, healthy birds. Prices moderate. REV. D. McCULLOCH, "Oldfields," Glencoe P. O., Balto. Co., Md.

WHITE WYANDOTTES.—The whitest kind, good yellow legs and heavy layers. A few good breeding hens and pullets to spare at \$2 each. Big, strong cockerels \$3 each. They are sure to please. Scotch Collie puppies from registered stock \$5 each. WM. H. CYPHERS, Crystal Farms, Washington, N. J.

BUFF WYANDOTTES EXCLUSIVELY since 1894. Some fine young stock that are Buff, and the proper shade, for sale at reasonable prices. American Buff Wyandotte Club Member. W. P. PRATT, Chatham, N. Y.

WHITE WYANDOTTES EXCLUSIVELY, Hunter, Duston, and Keller strains. Also some of A. C. Hawkins direct; large birds, heavy layers, pure white. After Oct. 15, pullets, \$1.50 to \$2; cockerels, \$2 and \$3; trios, \$5. WM. BURCHALL, JR., St. Denis P. O., Md.

WHITE WYANDOTTES. A very select lot of birds for sale, old and young. Strong and vigorous layers as well as winners. If you wish something good, write me. Agent for the Reliable Incubators and Brooders. D. LINCOLN ORR, Orr's Mills, N. Y.

THE GREATEST BLACK WYANDOTTE breeder is J. T. McNEALLEY, Loyalty, Va. Winner at New York and Hagerstown. Fine stock for sale. Also Buff Orpingtons. Satisfaction guaranteed.

100 SILVER WYANDOTTE cockerels and pullets from \$1 to \$2.50 each. Prices reduced on large orders. T. K. McDOWELL, Principio, Cecil Co., Md.

WHITE WYANDOTTES of the leading strains. Winners for past three years. Yearling stock and cockerels for sale. Eggs, \$2 per setting; three settings, \$5. W. P. WESTON, Hancock, N. H.

BEAUTIFUL WHITE WYANDOTTES exclusively. I have some fine cockerels and pullets for sale from excellent laying stock. All farm raised. L. C. TAYLOR, Lima, Ind.

FINE WHITE WYANDOTTE COCKERELS. Large, vigorous stock and snow balls that stay. Prices reasonable to sell off excess stock. G. R. STOVER, Coburn, Pa.

WHITE WYANDOTTES, SNOW WHITE, blocky, vigorous, heavy layers. Breeders and show birds to suit. Winners at New York, etc., since '96. Reference. Circular. CHAS. NIXON, Washington, N. J.

MINORCAS

BLACK MINORCAS (Northup). My breeders for sale to make room for youngsters. Cocks, cockerels, hens, and pullets, Grand birds. Write your wants. E. D. CROUCH, 543 14th St. S. E., Washington, D. C.

CHAMPION B. MINORCAS AND B. T. JAPANESE Bantams. Our Minorcas are noted for size, shape, and true color. Winners wherever shown. Only first-class stock for sale at all times. Eggs in season. Write your wants, and mention this paper. H. B. GREGORY & SON, Akron, Ohio.

WHITE MINORCAS BRED FOR PRACTICAL and exhibition purposes. My Minorcas are unsurpassed for their large size, grand shape, superb color, fine comb, and superior laying qualities. First-class birds for sale reasonable. Eggs from selected matings of exhibition birds, \$1.50 per 13; \$2.50 per 26. All birds sold on approval. L. H. MORSE, Newark, New York.

SINGLE COMB BLACK. Farm raised for heavy layers. Line-bred. Exhibition birds. Satisfaction guaranteed. Catalogue free. MRS. GEO. E. MONROE, Box D, Dryden, N. Y.

BLACK MINORCAS (Northup and Trethaway strains), prolific layers of extra large pure white eggs. Fertility guaranteed. \$1.50 per 15. E. L. BEAM, 212 Beacon Ave., Jersey City, N. J.

TIOGA YARDS. Standard-bred White and Black Minorca hens, \$1 each; extra-fine 4 for \$5. Male birds, \$3 to \$5. L. D. CLARK, Apalachin, N. Y.

S. C. BLACK MINORCA COCKERELS FOR sale at \$2, \$3, and \$5 each. Write for description and card showing where my Minorcas have won first prizes. Won five 1sts and three 2ds, eight entries, already this fall. Write me. GEO. E. HAYES, Prattsburgh, Steuben Co., N. Y.

FINE FARM-RAISED PULLETS CHEAP now. Must sell for room. Handsome, high-grade Black Minorcas and Buff Plymouth Rocks. Eggs in season—very reasonable and guaranteed. REV. J. A. LONG, York, Pa.

AM CLOSING OUT all Black Minorca breeding hens, \$3 each; two or more \$2.50 each. As good blood as can be produced. Write quick. F. H. WOOD, Cortland, N. Y.

BANTAMS

GEO. C. SALMON, Port Dickinson, N. Y., originator of the "Yellow Kid" strain Buff Cochins Bantams. I have bred them exclusively for ten years. I ship on approval and can assure you reliable stock. Circulars free.

SILVER SEBRIGHT BANTAMS, winners at Philadelphia, Boston, and New York, on 24 entries, 24 ribbons and 3 specials, including 2 silver cups. Stock for sale. Sell no eggs. A. C. TREICHLER, M. D., Elizabethtown, Pa.

THE STYLE, BEAUTY, AND QUALITY of Proper's Sebright Bantams make them popular. Imported and American bred. Stock for sale. Eggs, \$3. CLYDE H. PROPER, Schoharie, N. Y.

BLACK BREASTED Red Game Bantams, \$1 each for cockerels, hens, and some pullets. Good breeding stock. L. F. DIDDIE, Chester-ton, Ind.

BUFF COCHIN BANTAMS.—Competition paralyzers. Bred in line for past 8 years. Solid buff color, true Cochins shape, bright yellow legs well feathered. 100 now ready for fall shows. L. L. LUCAS, Oil City, Pa.

LIGHT BRAHMA BANTAMS.—The very best collection in America, and nothing but the best bred or sold from imported stock. I won more prizes the past 3 years at New York than all others combined. Good birds only for sale. Agent for the Reliable Incubators and Booders. D. LINCOLN ORR, Orr's Mills, N. Y.

FOR SALE.—Ten pullets, two cockerels of B. B. R. Game Bantams; strong and vigorous birds, bred from imported birds of strain of Ainscough & Cooper, England; high station and will score high up in the nineties; never shown. Will also sell one pair B. R. C. Bantams; cock was imported from Edwin Walton's strain, Eng., hen of Pollar strain. Also, seven hens and three cock birds of Latham strain of Buff Cochins Bantams. For prices, address, GEO. F. KICH-LINE, Easton, Pa.

MINER & WALKER, Brattleboro, Vt. Breeders of exhibition Game Bantams. We have at present a few extra fine Silver Duckwing cockerels that must be disposed of at once. Satisfaction guaranteed.

GAMES

PIT GAMES.—300 young birds now old enough to ship at \$3 per trio and \$10 per dozen until Sept. 1st. Descriptive circular free. Am breeding Belgian Hares also. Young stock \$5 per pair. C. M. MAHONE, Hazlehurst, Ga.

TO INTRODUCE STOCK, will give bargains in trios. Young chicks bred from pure Pit Games. Several breeds. Write for prices and particulars. CLARENCE BIRELY, Ladies-burg, Md.

B. B. RED GAMES! Of the grandest modern exhibition type. Also Roundhead Black Red, Cuban, and Shawnee Pit Games. Having long experience we breed winners. E. R. SPAULDING, East Jaffrey, N. H., Agent.

INDIAN GAMES

CARPENTER'S CORNISH INDIAN GAMES. Useful and beautiful. A fowl worth raising. Always winners, never beaten. Black Orpingtons and Colored Muscovy Ducks that win wherever shown. Stock and eggs for sale. Send for circular. H. M. CARPENTER, Box 203, Sing Sing, N. Y.

CORNISH INDIAN GAMES. 8 Pullets, 1 cock, and 6 cockerels for \$25. This includes my entire stock of Games and is a great bargain for some one, as they are bred from my winners. GEO. SCHRADER, Sykesville, Md.

RHODE ISLAND REDS

RHODE ISLAND REDS that are winners and just what you need. Yearling stock and cockerels for sale. Eggs, \$2 per setting; three setting, \$5. W. P. WESTON, Hancock, N. H.

THOROUGHbred STOCK FOR SALE.—R. C. Rhode Island Red cockerels. Rose and Single Comb Brown Leghorn cockerels, hens, and pullets. Strains of the leading breeders. E. C. HAMPSHER, Rayville, Md.

THREE HUNDRED breeding birds for sale from \$2 to \$10 each: R. I. Reds, Houdans, Lt. Brahmans, Buff P. and Golden S. Bantams. Some good bargains for early buyers. We want more room for our young stock. Also some fine Belgian Hares and Homing Pigeons for sale cheap. Send for circular and prices. DANIEL P. SHOVE, Box 666, Fall River, Mass.

POLISH

WHITE CRESTED BLACK POLISH.—Empire State birds for Pan-American breeders. A large number of show birds and breeding stock for sale. Write for what you want and prices. CHAS. L. SEELY, Afton, N. Y.

S. F. GULLIFORD, Akron, Ohio, 30 years a fancier of Polish. My specialties, White Crested Black, Bearded Silver, Bearded Golden, Bearded Buff Laced, and Bearded White. I breed these beautiful fowls to the highest standard of perfection. If interested in Polish write me.

LANGSHANS

BLACK LANGSHANS and White Plymouth Rocks. Only record laying breeders. Hardy stock that will be sure to please, for sale, Eggs, \$1.50 for 15. FRANK I. AHERN, Box 51 Laurel, Md.

BLACKS.—Hagerstown, '01, 2d pullet, 3rd and 4th cockerels; Riverhead, '01, 1st cockerel, 1st pullet. Have added to my yards 1st Green Castle (Ind.) hen and 1st pullet pair of '00. A few cockerels and pullets for sale. Eggs, \$2 per setting. HUTCHINSON SOUTHGATE, Good Ground, N. Y.

ABOUT NINETY BLACK and seventy White Langshans for sale with good will for \$100 each lot. MRS. C. M. KELLEY, Newark, Wayne Co., N. Y.

COCHINS

PARTRIDGE COCHINS from prize stock in young birds and also Buff Wyandotte cockerels. JOHN BITTERS, Box 6, Quaker Hill, Conn.

FOR SALE.—Three Buff Cochins cockerels and one Black Minorca cockerel, bred from the best stock. Address, VERNON STEM, Box 27, Union Bridge, Carroll Co., Md.

SPANGLER BROS. Buff Cochins won 1st cock, 1st pen, 1st and 3rd pullets, 2nd hen at Hagerstown. Write your wants. SPY POULTRY YARDS, Hanover, Pa.

ORPINGTONS

GERY'S BUFF ORPINGTONS. Bred from best English bloods. All pens headed by N. Y. winners. Pullets and hens \$1 up. Cockerels and cock, \$2 up. Eggs, \$2.50 per setting. Satisfaction guaranteed. W. A. GERY, Sinking Spring, Berks Co., Pa.

BUFF ORPINGTONS, hens, \$2 each. February, March, and April-hatched pullets and cockerels, \$1.50 to \$2 each. If you want fine stock write to me. J. W. TEDRICK, Williamson, Pa.

BUFF ORPINGTONS and **BUFF P. ROCKS**. 200 choice birds for sale cheap, if taken soon. Bred from prize-winning stock. MRS. W. D. STRAIGHT, Barrackville, W. Va.

BUFF ORPINGTONS. White and Cornish Indian Games, from best blood obtainable, stock for sale, eggs in season, circulars free. J. W. TEDRICK, Williamson, Pa.

BUFF ORPINGTONS and high-class White Wyandottes bred from N. Y. winners for sale cheap. You will save money by writing me before buying elsewhere. H. W. ACKERSON, Washington, N. J.

BRAHMAS

LIGHT BRAHMAS.—Hartnest strain direct, bred for fancy and utility. Yearling stock and cockerels for sale. Eggs, \$2 per setting; three settings \$5. W. P. WESTON, Hancock, N. H.

BELGIAN HARES

BELGIAN HARES of the right kind. Imported and domestic. Old and young stock. Reliable Headquarters. Stamp for prices. Booklet of breeding and management, 10 cents. G. T. KENNEDY, Hackensack, N. J.

BELGIAN HARES. Good stock 3 and 5 months, in pairs or single \$2.50 a pair. Also Homing Pigeons. GEO. HYATT, Scarsdale, N. Y.

BLACK BELGIAN HARES.—Pedigreed, long and racy shape. They are the hardest and healthiest and most now in demand of all Hares. I breed them exclusively and have extra-fine old and young stock for sale. L. L. LUCAS, Oil City, Pa.

BELGIAN HARES.—Do you wish to improve your stock? If so, write me. Just imported from Hamburg, Germany, one of the finest and largest Belgian Bucks this country has ever seen, fee \$20. -I will pay express one way, east of Mississippi River. I have for sale Jersey White, Silver, and Black Belgian Hares. All are from imported stock. Please enclose stamp for reply. WALTER M. CARROLL, Box 106, Lynchburg, Va.

SOUTH BUFFALO RABBITRY, C. HAMMERSCHMIDT, 1849 Seneca St., Buffalo, N. Y., Pedigreed Red Rufus Belgian Hares from best strains obtainable. Old and young cheap. Write your wants.

ANDALUSIANS

I MAKE A SPECIALTY of breeding and mating Blue Andalusians. Six first, four second prizes within last three years at Chicago and New York. EDWARD L. C. MORSE, President Blue Andalusian Club, 8208 Cornell Ave., Chicago, Ill.

DUCKS

IMPROVE YOUR BLOOD. Have some fine Pekin drakes that you need. Can send ducks and drakes not related. F. D. HILL, Westwood, N. J.

TURKEYS

WHITE HOLLAND TURKEYS, bred from the winners at Madison Square Garden, A fine lot of yearling birds for sale; also hundreds of young birds that have the large bone you need to improve your flock, some choice exhibition birds including the 2d old tom, 1st and 3d-prize young toms at Madison Square Garden, 1901. A. J. KREUTTER, Fayette, N. Y.

GEO. WOLF, Seneca Falls, N. Y. Bronze Turkeys, 200 youngsters bred by 45 and 47-lb. toms and 22 to 33-lb. hens. For great size, grand color, and form, my strain leads the procession. Superior breeders, mated not akin and exhibition birds that can win, at fair prices, considering quality. Look up my record at Madison Square Garden. For 3 years my birds have swept the deck at that exhibition in company with America's most noted breeders. If you want quality, write me, enclosing stamp.

EDW. OYSTER, Washingtonville, Pa. Bronze Turkeys, hens 20 to 22½ lbs. bred to Wolf (heavy-weight) toms the past two years. One three-year-old tom cheap.

DOGS

FOR SALE.—Pure Pit-bred Bull Terriers, eligible to registration, dead game. The best companions and watchers on earth. Write H. B. ROBINSON, Greenville, Miss.

BEGLES.—40 puppies from pedigree stock and from hunters. Grand in type, color, and size, plenty fit to show and win. "DEBONAIR," Gloversville, N. Y.

BEGLES FOR SALE. Three bitches, one dog. Whelped Dec. 25. Bitches, \$8; dogs \$10. DURR & DECKER, Wanaque, N. J.

THOROUGHbred SCOTCH COLLIES.—25 male and female puppies. Males, from \$3 to \$5; females, from \$2.50 to \$4 each. Satisfaction guaranteed. JOHN Z. FAUST, Mercersburg, Pa.

FANCY PIGEONS

100 FANTAILS for sale. Blacks and Whites, breeders and show birds in lots to suit, imported stock, no better in America. Prices reasonable. E. A. HOLBROOK, Winchester, Mass.

FOR SALE.—Pouters in Red, Yellow, Blue and White; White Fans, White Dragons, Parlor Tumblers in Yellow, Black, and Dun. Address, M. WOELFLE, Silver Creek, N. Y.

POUTERS, Fantails, Jacobins, Parlor Tumblers, Turbits, and Magpies. A large number for sale at low rates to reduce stock quickly. C. F. CAMPBELL, Sunbury, Pa.

ALL VARIETIES FANCY PIGEONS.—Pouters, Carriers, White Barbs, White Jacobins, White Homers, Turbits, Magpies Red and Black, White Owls and Fans, and Tumblers. FRED F. HIBNER, 173 East Cottage Place, York, Pa.

LONG MUFFLED TUMBLERS, nearly all colors, Turbits, Magpies, Fantails, and Homers, bred from my Hagerstown winners, \$1 apiece and up. GEO. SCHRADER, Sykesville, Md.

PIGEON SUPPLIES.—Open bands, 75c. per 100. Seamle s, 2c. each. Loft Nets, \$1 each. Big Bundle of Poultry or Pigeon papers, 10c. Pigeon and Poultry Books, Poultry Bands, etc. Cat. for stamp. RALPH L. WHEELER, Lowell, Mass.

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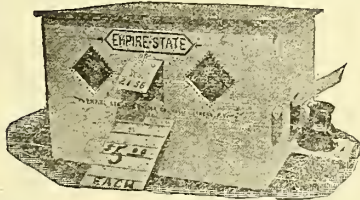
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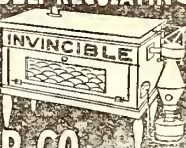
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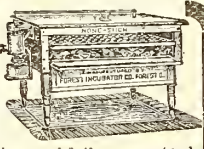
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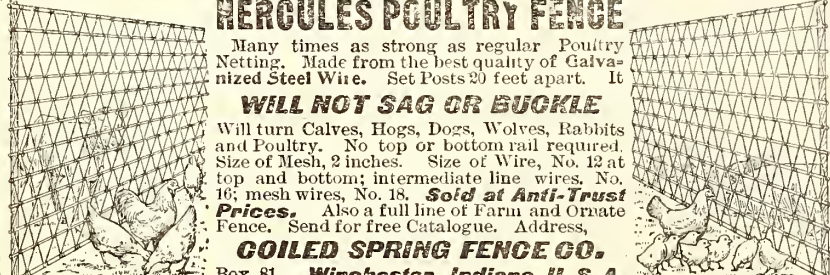
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At Malden, Mass., Dec. 4-7, in strong competition, but strengthening my reputation for breeding a quality of Barred Plymouth Rocks which can not be excelled. I won 1st and 2d on cocks; 1st and 2d on cockerels; 1st, 2d, and 3d on pullets; 3d on hen; 1st and 2d on pens. I have some splendid specimens of Barred Beauties for breeding stock at \$4 and upwards. Eggs, \$2 per setting; \$8 per 100. Circular free. **J. W. RANDALL, Prop., Meadowview Poultry Yards, 403 Salem St., Malden, Mass.**

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Vass' Buff Orpingtons.

At the Crystal Palace Show of America, Madison Square Garden, N. Y., 1901, 1st and 2d cocks, 1st and 2d hens, 1st cockerel, 1st and 4th pullets, in the largest class of Orpingtons ever shown in this country. A few trios of Orpingtons at reasonable prices. Buff Rocks and White Wyandottes of high quality. Eggs and stock for sale. Circular free. Satisfaction guaranteed.
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Always Win the Lion's Share Of Prizes.

If you do not believe it, SEND AND GET HIS CATALOGUE, and it will tell you who scored his birds. He stands in front, with highest scores by leading judges. I. K. Felch gave one of his cockerels score of 95 points, and wrote across score-card, "Every doubt given against this noble big fellow;" weight, 11 lbs. H. A. Bridge gave one of his birds score 95 points. B. N. Pierce cut one of his cockerels one-half in color. L. G. Jarvis, Guelph, Canada, scored 4 birds 94%. J. Y. Bicknell scored cockerel 94%. Charles McClave 93½ scores of birds. I have exhibited 25 times in past 8 years and won 24 times on cockerel, and tied the other one score. Sharpe Butterfield scored 3 cockerels in one show 93%. Send for my catalogue and see my winnings and scores, and who scored them, and you will say I lead the procession in winnings. Elegant breeders in any number.

NEVER LOST ON BREEDING-PEN

in any score-card show, nor any pullet where they were weighed and weighed correctly. Eggs \$3 per setting. Only lost once on first cock. I won all prizes at Springfield, O., Aug. 21-24, 1900, all prizes offered. My strain won all prizes at Urbana, O., Aug. 14-17, 1900, this season making 30 times I have exhibited in 8 years. No breeder ever made such a record.

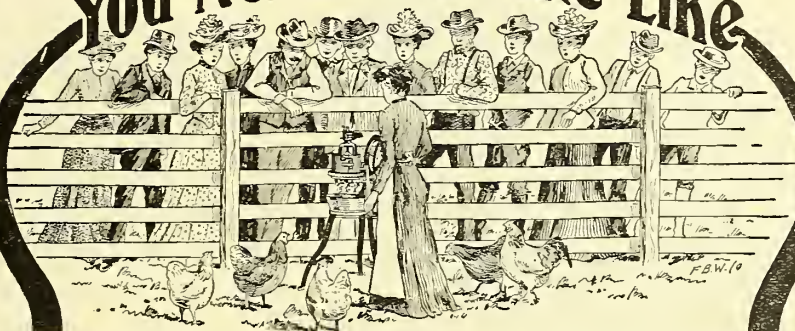
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Eggs, \$3 per Setting.

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New design, open hopper, enlarged table, new device to control feed. You can set it to suit any strength. Never clogs. The really successful bone cutter. Compare it with others and see for yourself.

It has an automatic feed. You turn the wheel and it does all the rest. You don't have to use one hand to manage the feed.

It has a self governing feed which adapts itself to the power operating it, making hard bones cut as easily as soft bones—in fact, you don't know whether the bones are hard or soft. With other machines you have smooth sailing one minute and hard tugging the next. The Mann's never stalls nor clogs.

Its self governing device is adaptable to any strength. You can set it to run as easy, as fast or as slow, to cut as coarse or as fine as you like. No other machine has this device.

Its special cutting device, its special hopper, allow none of the bone and none of the adhering meat or gristle to escape uncut. Others allow slivers of bone and hunks of gristle to work in between the cutter plate and the hopper. clog the machine, make turning hard, waste good material and endanger the lives of your fowls. The Mann's 1902 model cuts it all, and so makes more and better food from the same material than does any other machine.

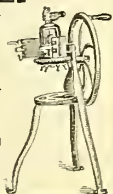
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No money asked for until you prove our guarantee on your own premises, that our 1902 model will cut all kinds of bone with adhering meat and gristle, easier and faster and in better shape than any other type of bone cutter. If you don't like it, send it back at our expense.

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NO EGGS FOR SALE.

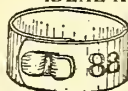
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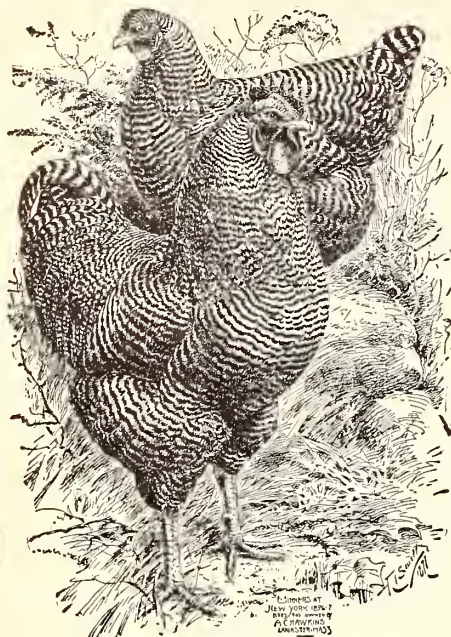
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ROYAL BLUE STRAIN

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BARRED, WHITE AND BUFF.

WYANDOTTES, SILVER WHITE AND BUFF.

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 Per 100, \$20.00.

Have won more prizes at New York, Boston, Washington, and America's greatest shows than all others. My matings this season are the best I ever owned. * * * * *

At the Great National Show, WASHINGTON, D.C., in hot competition with over 300 birds of these varieties, the best that could be found regardless of price, I won 45 Regular and Special Prizes on 39 Entries, including First Prize on Breeding-Pen in each variety, Special for Best Display in the American Class, Special for Best Exhibit of Plymouth Rocks, Sweepstakes Special for Best Cockerel in the show (Bantams excluded), and this on my First Prize Barred P. Rock Cockerel. My winning White Wyandotte cock was pronounced by the judges to be the best they had ever seen. I won twice as many first prizes as all other exhibitors of these varieties. My BUFF ROCKS, at Boston, 1899, in hot competition, won more first and special prizes than all others. My customers are winning all over the country. If you want the BEST, write me. Hundreds of Choice Exhibition and Breeding Birds at Honest Prices. Catalogue of America's finest Plymouth Rocks and Wyandottes free.

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4 Years in succession has the most remarkable ever achieved in the realm of poultry exhibitions. This record is by many points the highest ever accomplished in annals of the New York Show. Winning more than three times as many 1st prizes as any other exhibitor, and as many 1st prizes as all competitors combined. Besides, more than twice as many cups and specials as all, including the superb challenge trophy, value \$100, for best cock, cockerel, hen, pullet and exhibition-pen; \$100 sterling silver cup for finest exhibit; grand special prize sweepstakes cup, value \$100, presented by the President for best P. Rock cock, cockerel, hen, and pullet any variety. My clean sweep in 1898, of

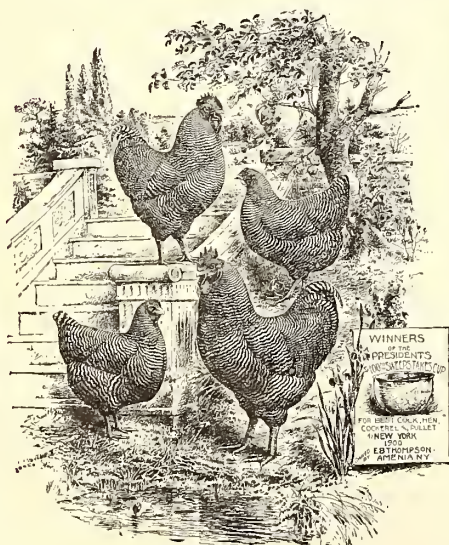
1st, 2d, 3d, 4th, and 5th Prizes

on pullets has never been approached in Madison Square Garden, and stands alone and unequalled. The "Ringlet" world's record of 1st on exhibition-pen at New York 3 years in succession is the undisputed champion. With their 1900 record the "Ringlets" have won at New York a grand total of 77 prizes. 31 of these are 1st and specials, being 17 more first and special prizes than won by any competitor in the history of the show.

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White Wyandottes,

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Fifteen years of careful breeding has produced a strain of fowls unequalled in practical qualities, and winners of the highest honors in the show-room. In Boston Show, 1901, I had only 4 birds in a hot class of 201, won 2d on cockerel, 3d on hen, 6th on cock, and two specials, including special for best-shaped cockerel. I breed and raise the birds I handle and exhibit. My breeding-yards for 1901 are composed of very choice birds; among them is the noted Stay-White cock, winner of 4th and special for whitest male, Boston, '99, 4th New York, '00, and 2d St. Louis, '01. Also "Triumph," winner of 2d and special for best-shaped cockerel, Boston, '01. Stock and eggs for sale.



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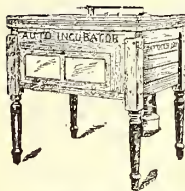
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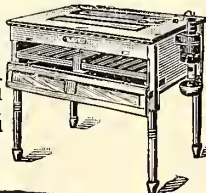
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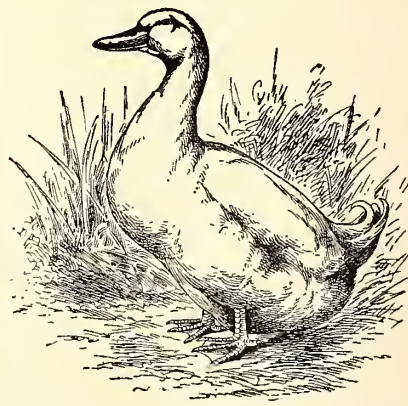
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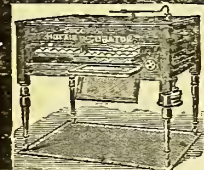
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you will raise every one that could be raised in any other way. Our 20TH CENTURY POULTRY BOOK tells why and a hundred other things every poultry owner should know. Sent for 10 cents. We have 115 yards of thoroughbred poultry.

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Barred Plymouth Rocks. More First Prizes at the last 12 New York Shows have been won by birds we bred and raised than any other exhibitor has won on ANY BREEDING.

Nearly Three Times as Many First Prizes on Males at these shows have been won by birds we bred and raised, than by any other exhibitor on ANY STOCK.

We Have Liberty to Publish All Facts Given in This Advertisement.

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Six Females of OUR BREEDING were winners of First Places at recent National Shows, and 15 of Our Breeding have been winners of First Places at New York Shows.

The HIGHEST PRICE EVER GIVEN in this country, to our knowledge, for a Barred Plymouth Rock, either sex, was recently received for one of our "LEE BELLE" females.

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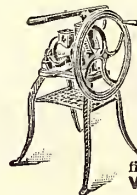
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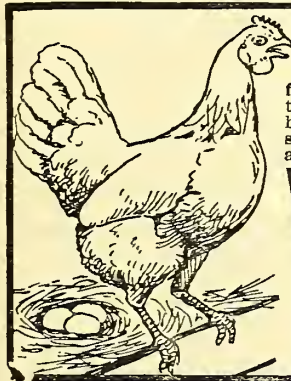
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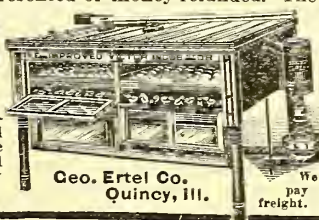


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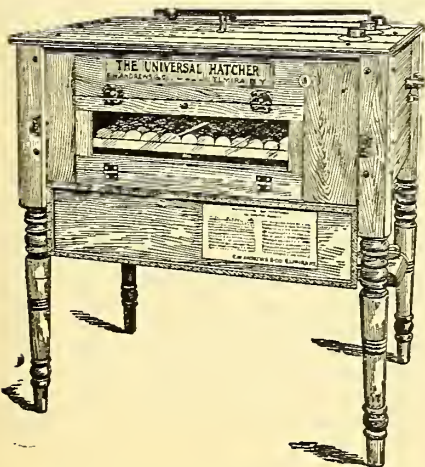


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Gardiner, The Poultrymen's Printer,
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The Feather Library and Art Pictures.

Read carefully the descriptions of each of the following books and pictures.

"The American Fancier's Poultry Book."

"THE American Fancier's Poultry Book" is one of the best books we have ever offered to the readers of *THE FEATHER*. It is a grand book, and has been praised by all who have seen it. It is a practical book, and should be in the home of each and every lover of poultry. No matter how much you may know about poultry, you will be certain to find something new in its pages. To the novice nothing better could possibly be recommended. This great book contains illustrated chapters on The Poultry Industry, General Management, The Egg, Incubation, The Chick, Recipes for Feeding, Feeding for Eggs, House Building, Keeping Eggs, Caponizing, Diseases, The Standard Breeds of Poultry, The American Class, Asiatic Class, Mediterranean Class, Polish Class, Hamburg Class, French Class, English Class, Game and Game Bantam Class, Bantam Class—Other Than Game, Miscellaneous Class, Turkeys, Ducks, Geese, and Swans. **Price, 50 Cents.**

"Money in Squabs."

THE most interesting and the only practical book published on raising squabs for market, is our book entitled "Money in Squabs." This book has had a most generous sale during the past year, greatly exceeding the expectations of the publishers, and is, without doubt, the only reliable publication of its kind. "Money in Squabs" treats of every topic pertaining to pigeon raising, and is illustrated with the most modern and practical ideas for housing and breeding pigeons on a large as well as a small scale. You will surely be interested in the industry after reading this book, and the information gained will be worth many times its cost to you. "Money in Squabs" contains chapters on the following interesting subjects:

Introductory, Breeding Houses, Breeding Stock, Distinguishing Sex, Food and Feeding, Water, Salt, Nesting Material, Manure, Breeding and Management, Dressing Squabs for Market, Shipping and Selling, Diseases of Pigeons—Canker, Cholera, Egg Bound, Enteritis, Going Light, Roup, Small Pox, Sudden Colds, Wing Disease, Worms—and Douglass Mixture. Some of the illustrations are: Full-page drawings of Homers, Runts, Dragons, and Duchesse Pigeons, Plans of Single, Double, and Continuous Houses for Breeding Squabs, Arrangement of Aviaries to a Garret Room and to a Barn, Plans for Building a House in the Back Yard, Plans of Nests, Perches, Mating Boxes, Bath Tubs, Drinking-Fountains, Salt-cat and Grit Boxes, etc., etc. The book is thoroughly practical, reliable, and of untold value to all who are interested in raising pigeons for profit or pleasure. **Price, 50 Cents.**

"The Diseases of Poultry."

"THE Diseases of Poultry," by D. E. Salmon, D.V.M. is the only standard and reliable work published in the English language on this important subject to every poultryman. The author is too well known to need an introduction, and his works are adopted as authentic by everyone. This is his latest book, and all who breed fowls, whether for pleasure or profit, should have a copy of it. This great book has twelve complete chapters treating on all known diseases which affect poultry. It has 248 pages and 72 reliable illustrations. This book is printed on finest calendered paper, handsomely bound in heavy covers, and weighs exactly one pound. This valuable book has twelve chapters on the following subjects: Introduction, Diseases of the Organs of Respiration, Diseases of the Organs of Digestion, Diseases of the Organs of Digestion Continued, Diseases of the Peritoneum, Liver, and Spleen, Diseases of the Organs of Urination and Reproduction, Diseases of the Brain, Diseases of the Heart and Blood Vessels, Parasites and Diseases of the Skin, Diseases of the Feet and Legs, Diseases Having a Tendency to Affect More Than One Set of Organs, and Injurious Habits and Vices. **Price, 50 Cents.**

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THE fourth book of *THE FEATHER'S* series is Myra V. Norys' latest production, "Pocket-Money Poultry." This book was written primarily for women who wish to supply themselves with pocket-money by keeping a few fowls. It begins at the beginning of the subject, goes into the details, points out the essentials, and makes the course of the successful poultry-raiser so plain that any intelligent person can follow it without difficulty.

The experienced poultryman will, also, read this book with both pleasure and profit. There are none so old and experienced but that they have still much to learn. Perfection in this as in other occupations is hard to attain, and those who are doing the best still find room for improvement.

"Pocket-Money Poultry" has the following interesting chapters: Women—Fowls—Money, How Much Capital?, Choosing a Line of Work, The Breed That Wins, Artificial and Natural Incubation, Satisfactory Coops and Brooders, Mothering Chicks, The First Season's Work, The First Season With Fancy Poultry, Confinement or Freedom, The First Poultry-House, Feeding for Eggs, The Embryo Chick at Testing Time, Ducks and Geese, Turkeys for Pocket-Money, Squabs for Pocket-Money, Pocket-Money Possibilities, Pocket-Money Pointers, Supplementary Food Supplies, The Possible Value of Caponizing. **Price, 50 Cents.**

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OUR collection of beautiful poultry pictures is unexcelled. We have prepared these plates at considerable cost and do not hesitate in saying that they are the best art pictures of poultry ever published. Many thousands of them have been sold, and every one interested in poultry should have them in their homes. They are printed on best quality of paper and suitable for framing. All lovers of poultry should by all means possess these beautiful art pictures. Following is a list of twelve pictures 8½ x 11 inches. These are sold in sets of six for **50 cents**. Select any six of the twelve you may wish for **50 cents**, or the full set of twelve for **75 cents**. When ordering a set of six pictures be sure to give the numbers of the ones you want.

1. Barred Plymouth Rock Male. 2. Light Brahmas. 3. Black Langshans. 4. White Wyandottes. 5. Buff Leghorns. 6. Black Minorca Male. 7. Single Comb Brown Leghorn Male. 8. Pair Silver Spangled Hamburgs. 9. Pair White Crested Black Polish. 10. Pair Barred Plymouth Rocks. 11. Pair White Wyandottes. 12. Buff Cochin Female.

BLACK MINORCA SPECIAL.

We have just published a most beautiful picture in natural colors of the Standard Ideal Black Minorca male and female as adopted by the American Black Minorca Club. It is pronounced to be the most perfect picture of these birds ever published; the coloring effects are marvelous, showing the greenish-black plumage as is to be seen in the living birds. The picture is 9½ x 12½ inches, on the best grade of enameled paper, and mailed securely in tubes for **25 cents each** or five for **\$1.00**. Special prices for large quantities.

LIGHT BRAHMA SPECIAL.

This new picture is our greatest triumph. It is 12½ x 18½ inches and is most attractive for framing. The plate is what is known in art as a duograph, and is a most perfect representation of steel plate engraving. The subject of the picture appeals to all lovers of poultry, and makes a picture that will be appreciated in any home. The scene is a beautiful girl standing in the midst of a flock of Standard Light Brahmas, with the farm house and orchard in the distance. It is a sunshiny scene and appeals to the eye at sight. This great picture securely mailed in tubes for **25 cents each**, five for **\$1.00**. Larger quantities at special prices.

When making remittances do not send stamps, but send P. O. Money Order, Express Money Order, Registered Letter, or Bank Draft, to

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A National Journal Devoted to Poultry, Pigeons, Birds, Etc.

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VOL. VII. No. 4.

WASHINGTON, D. C., JANUARY, 1902.

FIVE CENTS

GAME FOWLS

From the Kulm of India to the Exhibition Game.

All Breeds, their Varieties and Types Considered.

The latest statements rather lean to the opinion that the Aseel may be the oldest Game fowl; if not that, perhaps more ancient than the Kulm or Malay fowl of India. But to deal with days long forgotten and to hope to hunt out that which naturalists have faltered at for years, might prove to be an endless job with no results; so it is far better to turn our thoughts to the present in dealing with our subject, and relate what our Games are in kind and color and describe them as we have them within our Standard and the exhibition-hall, and casually mention some we do not recognize as standard bred.

As the Indian Game admits the antecedents of the Aseel or Malay or both it may be as well to class them as a family. In our Standard we subdivide our Games and place in Class IX. Oriental Games and Bantams, the Indian Game, Malay, Sumatra, and Malay Bantams, all of which originally came from India. The Sumatra Game has had the least attention at our hand; but few care for or breed them, and while they are one of the most beautiful Games we fear that they will slowly disappear.

THE SUMATRA GAME.

This might be called the Game cock of America in the same sense as the old English Game is credited to the mother country. The Black Sumatra as termed in our Standard is very much the same manner of fowl as the Chinese artists illustrate as a Malay-bred Game cock; the shape and the carriage much the same, the long flowing tail that sweeps back and droops to the ground, the full flowing plumage, and all of its make-up quite the same as our Sumatra Game.

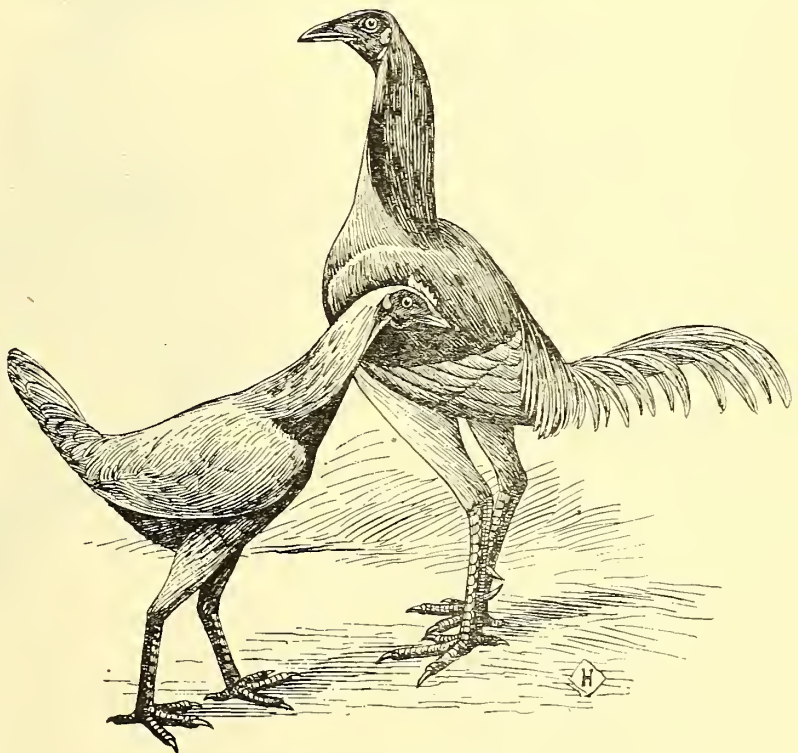
The head of the Black Sumatra presents a beautiful picture, rather round in shape, clean cut, and finished with a

small pea-comb, scarcely any wattle, and a clear, bright, flashing black eye that is always active and alert to every motion, neck rather long and beautifully arched, back rather longer than

up on the back, the plumage must be close, compact, and hard. The whole appearance of both male and female is strikingly Game. The female is fashioned much like our other Game hens only finer in form, longer in tail, and not so long in shank. The color of the Black Sumatra is very rich greenish-black, the quills of their flight-feathers are often so bright and shining as to look as though they had been polished.

THE MALAY GAME.

The most prominent figure in the early history of Game fowls is the Malay. This title has been used, misused, and abused in many ways, having been applied, like the name Java, to numerous fowls of different kinds. In



RED PYLE GAMES.

in other Games, hackle and saddle long and flowing, full and broad in the breast, the whole body tapering to the tail; the wings nicely folded up against the side, they must not droop nor throw

early times it was called the Kulm fowl of India, Java, and Sumatra; they were long known in the province of China and have the credit of having done their part in originating all of our

Chinese or so-called Asiatic fowls. The most prominent feature in the early mention of them was the fact that they were over two feet high and very large, strong, and pugnacious; the hens smaller than the cock-bird, rather ill-tempered and awkward, of a brown color, lofty in carriage, the shells of the eggs they lay brown, and they are good sitters—thus do the early writers describe them.

Of the present-day Malay the people of our country know but little. Those we see are the few that go jaunting about to our fall fairs for revenue only. By many they are taken for Indian Games, and the greater portion of our people look at them as they do at the lion in the circus, with curiosity only, not stopping to consider that they were before the christian era, nor to contemplate the part they may have played in laying the foundation from which all of our Asiatic and American breeds have come.

The general form and make-up of the Malay belong entirely to themselves. The heavy overhanging skull and knob-like comb, the long neck and legs and heavy shanks, are all striking belongings of this peculiar fowl. A cockerel at ten or twelve months old should be about thirty-eight inches from sole of foot to top of head, and weigh at least ten pounds; a hen under seven pounds is considered small. The eyes of the Malay should be light in color, either pearl or yellow; the red eyes of some of them are unnatural to the breed and tell of mixed blood.

We only have or recognize the Black Red Malay, and it is not generally known that they are bred in Black, Red, White, and Pyle colors. The female of the Black Red can be any shade of cinnamon, with dark purple hackle; some have a hackle like a Partridge Cochin female, but the most beautiful specimens have the cinnamon-brown body-color and purple hackle that is quite free from markings of any kind. The Black Red male and the Pyle are marked like other Games of the same color, the red and black shadings of the Black Red Malay very rich and dark, the black a glistening beetle-green shade of black. Small size is a grave fault. They must be tall, heavy in body, large and of good weight; if they look short or small they are to be condemned as inferior specimens.

THE ASEEL.

Whether the Aseel or the Malay is the older or whether one is the ancestor of the other, and, if so, which one has the call, will never be known; but the glaring fact exists that the one is tall and extended while the other is low-set and compact in form and short in shank, a formation quite dissimilar to the Malay, and in addition to this the Aseel has a pea-comb. If our readers will consider these two features and remember that the Aseel is a low-set, heavy bird as compared with the Malay they will now readily grasp the proper shape for the Indian Game that should be fashioned after the Aseel.

We give below the words of Sir

Claud Alexander, Bart., a long-time breeder of Aseel. He writes:

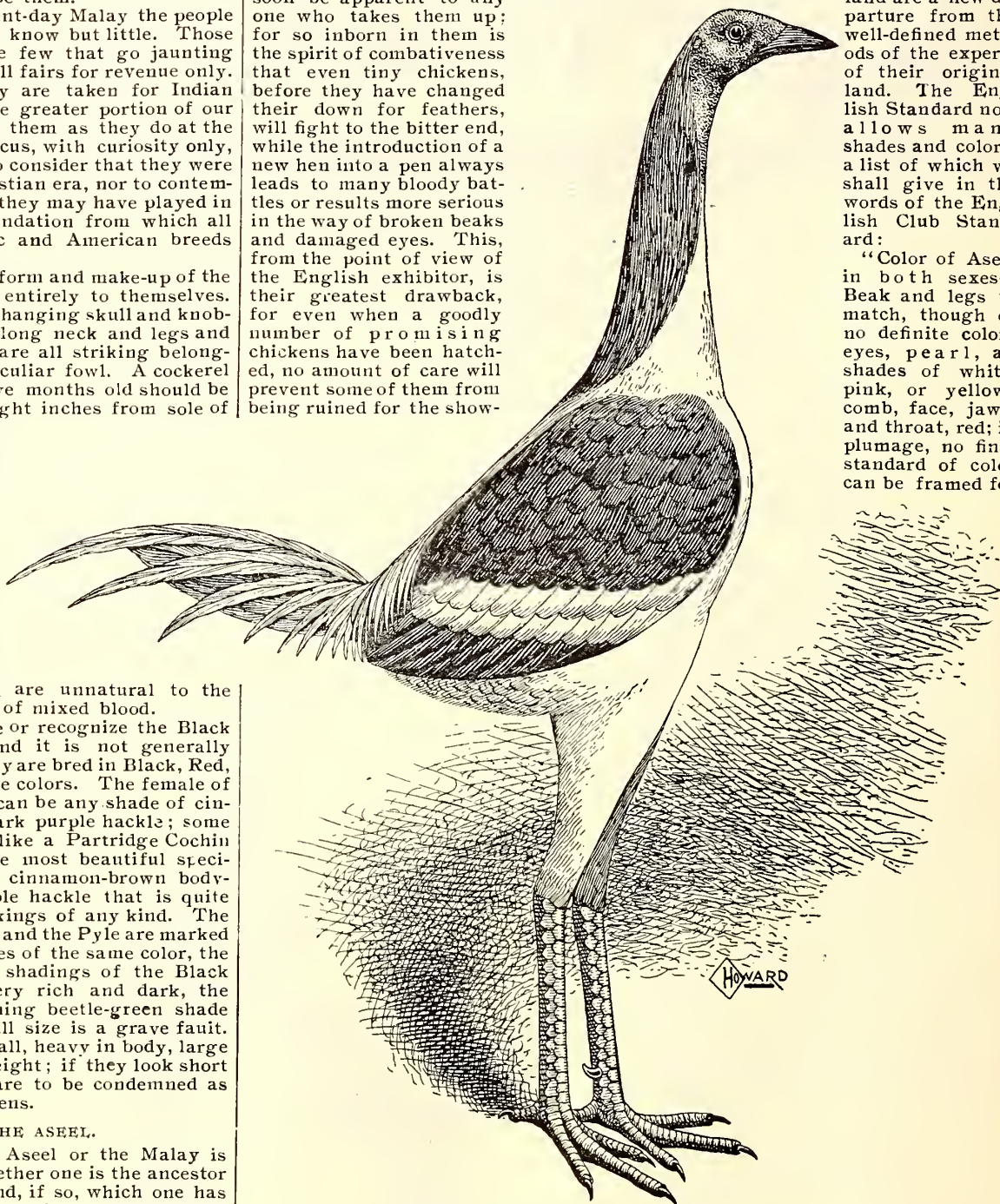
"Aseel as their name (which is an Indian name meaning aristocrat) implies are, perhaps, the oldest breed of domestic fowls in existence, having been kept from time immemorial by princes and by all classes in India for fighting. How well they have been selected and bred for this purpose will soon be apparent to any one who takes them up; for so inborn in them is the spirit of combativeness that even tiny chickens, before they have changed their down for feathers, will fight to the bitter end, while the introduction of a new hen into a pen always leads to many bloody battles or results more serious in the way of broken beaks and damaged eyes. This, from the point of view of the English exhibitor, is their greatest drawback, for even when a goodly number of promising chickens have been hatched, no amount of care will prevent some of them from being ruined for the show-

and been glad to exchange the mangled remains of their carefully collected pen for a more peaceable breed."

As bred to the purple in India the only colors permitted are Black Red or bright ginger, a few of the hens showing faint traces of the lacing to be seen in our Indian Games. No other colors are allowed in the best-bred strains of India. Other colors as bred in Eng-

land are a new departure from the well-defined methods of the experts of their original land. The English Standard now allows many shades and colors, a list of which we shall give in the words of the English Club Standard:

"Color of Aseel in both sexes—Beak and legs to match, though of no definite color; eyes, pearl, all shades of white, pink, or yellow; comb, face, jaws, and throat, red; in plumage, no final standard of color can be framed for



PROFILE OF STANDARD EXHIBITION GAME MALE.

pen, by their brothers and sisters. Added to this, although their plump breasts and freedom from offal makes them excellent table birds, they are bad layers, and the hens can not be depended upon to lay more than eight or, at most, a dozen eggs each. Considering all this it is, perhaps, not to be wondered at that many who have set themselves up with a stock of this variety have given them up in despair,

Aseel, as they are of no fixed hue,—the principal colors are red, black, gray, red spangle, black spangle, yellow and white."

The Aseel resembles the Malay somewhat in general make-up, but they are shorter and closer built, shorter and heavier in thigh and shank, and some lower in carriage. They are very heavy; a small looking specimen feels as heavy as lead. All these belongings have

come from them to the Indian Games that should be compactly built and heavy in proportion to their size.

INDIAN GAMES.

The Indian Game has been known in England for over sixty years. The name Cornish Indian Game was given them as an emblem of the locality from which they originally came. They were no doubt originated among the people of Cornwall and were used by the Cornish miners for fighting. Just what mixture of breeds is responsible for their origin will never be known, but as one of them was undoubtedly the Aseel, as is plainly shown by its dominating power in their make-up, as these Games have such good colored shanks as a rule, we must hunt for a union of this blood with some other Game fowl that had the yellow shanks. Feeling, as we do, that no better authority can be quoted than Mr. Lewis Wright, we copy from his new book on poultry his statement as to their origin:

"This breed (Indian Game) has been familiar in Devonshire and Cornwall for at least sixty years, but has only been practically known to any extent outside of those counties since about the year 1875, being at that date often spoken of or referred to as 'Cornish' Game, in recognition of its local char-

acter. For years previous to that it often received and filled classes at the local shows, and in 1870 we found a large and good collection at the Plymouth Show of that year. We had at that date never seen the true Aseel, and our idea was then that the breed had probably been produced by crossing Malays with English Game. Other various accounts have been given of its origin. The late Mr. Comyns leaned to the opinion that it sprang from Game and Malay 'with a touch of Aseel and Indian Jungle Fowl'; and Mr. Tegetmeier also believed it to be mainly Malay. It was known as Cornish 'Game,' because on many occasions the fowl was actually fought by the Cornish miners, being in the early days—as we know from many sources—fierce and possessed of some courage. But even at its best it was never able to stand against good English Game, being too heavy and slow, and lacking spirit in comparison; and any fighting capacity which it ever did possess has now almost disappeared.

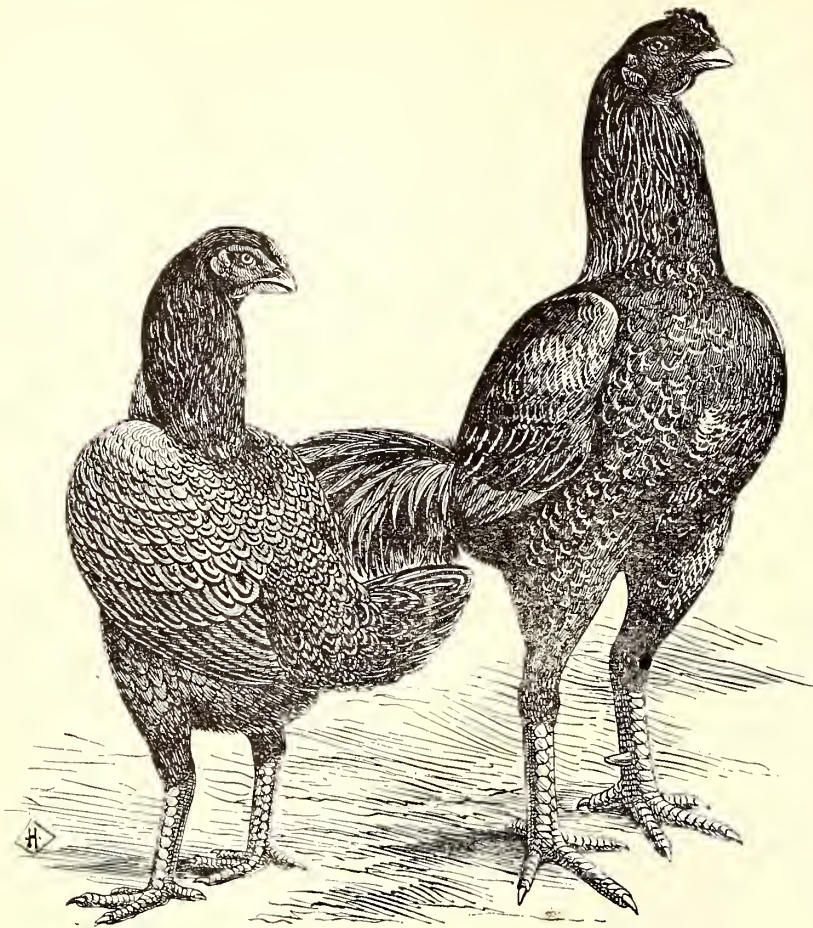
"There can, however, be no doubt at all now that the true ancestor of the Indian Game fowl is the Aseel, from which is derived the pea-comb, more moderated carriage and proportion, and more rounded form. The chief question really debatable has been, whether the

Aseel had been crossed with Malay, or with the British race; and this is practically set at rest by the direct affirmation of Mr. Montresor. That gentleman published a statement in *Poultry* a few years ago, to the effect that in 1846 he had been personally informed by the late General Gilbert (afterwards Sir Walter Raleigh Gilbert) how he had himself originated the breed in Cornwall, years before that, by crossing Red Aseel, which he had imported direct from India, with English Black-Breasted Red Game of Lord Derby's strain. Taking into consideration date, and social position, and locality, and detail, this statement must be held to settle that question in the main. But from inquiries we made in various directions respecting changes which we noted with our own eyes in the birds as exhibited, there can be little doubt that some further modification of the breed took place about 1870-77, crosses being made with birds intensely black in the cocks and magnificently glossed in both sexes, then exhibited occasionally as 'Pheasant Malays.' From this cross was derived a solid black breast and darker color in the cocks, and greater richness of color and more iridescence of the lacing in the hens; and we suspect the *double* lacing also, which we never remember to have seen before. What this 'Pheasant Malay' itself really was, we are at the present date unable to say. It was certainly not Malay as otherwise shown; being smaller, with fuller tail, and with more symmetry and rounded shoulders, and it had a pea-comb. Neither was it Aseel as now shown; having too much tail, though of very narrow feathers, rather too much limb, and too upright or Malay a type of carriage. Our own impression, confirmed by every American fancier who has ever seen the breed in the United States, and whom we have been able to consult, is that these birds were probably specimens of the magnificent Sumatra Pheasant Game fowl, and that this breed has, therefore, been a third component of, and given the final 'polish' to the Indian Game. Its own close relationship to the Aseel has been hinted at in discussing that bird; and upon the whole the successive mixture of strains here indicated appears the most probable pedigree of the present Indian Game.

"These birds combine utility with beauty in a high degree, and have won their popularity from inherent worth, as very little in the past has been written about them. They are particularly hardy, and never do better than when allowed to roam in the fields, and sleep at night in the trees or bushes; but from their hardy constitution they also bear confinement well, and will lay well in winter if provided with sheltered runs. They breed true; and I have known as many as ten winners reared from one setting of eggs. From some of the most carefully-bred strains, such a thing as a waster is practically unknown. Yet for beauty of plumage the Indian Game will compare with any of the fancy varieties of poultry. Each feather (especially of the females) possesses great beauty in itself. That of a pullet is a clear chestnut ground-color, with an outer and inner green-black metallic lacing of most exquisite lustre, which reaches the zenith of grandeur when the sunlight plays on the plumage. The general color of the male is green, glossy black, and the plumage



BLACK SUMATRA GAME.



CORNISH INDIAN GAMES.

is very close and hard, so that the bird looks as if he were wearing a coat of mail.

"For the table, Indian Game are unsurpassed, having a broad and deep breast from which many slices may be cut, and always in killing condition if moderately supplied with food. The somewhat yellow-tinted flesh (when ordinarily fed) has told against them in the London market; but this prejudice I hope is dying out, and whatever the flesh may lack in color, is far more than compensated for by a very marked delicacy of flavor. At Plymouth, Exeter, and other western markets where they are better known, the Indian Games are eagerly bought, and command higher prices than any other breed of fowls; and this without cramming or any extra feeding whatever. They are also the best breed known for crossing with almost any variety for breeding table poultry, reproducing as they do to a very large extent their own characteristics on the cross-bred progeny, which is an evidence of their ancient pedigree.

"From my experience as a successful breeder and exhibitor for twenty-five years, I maintain that no class of poultry can be bred, reared, and successfully shown with less expenditure of time and attention than Indian Game. The first step, which is of paramount importance, is to possess healthy stock birds, of reliable blood. I allow the hens to sit on their own eggs in March, April, and May, and sometimes later, and when hatched I usually feed the chickens liberally twice a day (but

oftentimes they provide for themselves), and the brood is healthy and grows rapidly. The hen will often guard her offspring until the cockerels outgrow their mother. If bred before March, the chickens require more attention, as there is then no insect-life for them to feed on, and the cold winds play havoc with them, as for the first two months they are almost featherless. They get in full plumage when from five to six months old.

"The only preparation required for showing is to tame them by occasional handling; and to wash the legs (if dirty) and sponge the face before sending off to show.

"As indicated in the above notes, both cockerels and pullets of this breed can be bred from one pen, when the birds are of an old and reliable strain, and while the present standards of color are preserved. Already, however, some breeders profess to get better results by mating up two pens, using hens with dark ground and heavy lacing to produce cockerels, and lighter ground and somewhat narrower lacing to breed their pullets. It will be a pity if this system spreads, or goes any further; and still more so if another system, which one or two breeders have pursued, of breeding pullets from red-hackled cocks, should extend. Hackles of this kind are a great fault in the male bird, and if tolerated merely to breed females, double-mating would be introduced in its worst form. Fortunately (from this point of view), while we know that some really fine pullets have been bred that way when the hens

have been good, the bad ones have been in very large proportion, even more than when the usual system has been pursued. What can properly be done, and what (judging from analogy) ought to be effective in breeding well-marked pullets as well as rich cockerels, would be to choose males for breeding in which the chestnut or crimson in the back or saddle of the cock was sharp and well defined amongst the green-black, without being more in proportion or amount. It would be a great pity to go further, throwing away in any degree the benefit of the present acknowledged sex-colors, which have been proved to be natural and to breed true; and the greatest evil of encouraging triple or further lacing, as was once likely in America, is that it would certainly bring in ultimately the practice, if not the necessity, of using cocks with other than green-black breasts, merely for pullet-breeding. Independent of this reason, such changes would destroy that grand and bold character of the lacing which at present distinguishes and makes so beautiful the Indian Game.

"It is better, so far as possible, to breed from birds over one year old, though this can not always be done. The chickens are slow in feathering, though clothed sooner than Malays; and the progeny of adults fledge more quickly and kindly than those of young birds. The chickens are hardy to mere exposure, provided they are brought up so, but they *must* be kept running about, and there are none which suffer more surely from the falsely called 'cramp' if subjected to too much heat or to over-feeding. A prevailing diet of grain or hard food seems to suit them best, including especially a portion of canary-seed if brought up in partial confinement; on free range, as indicated by Mr. Brent, they give hardly any trouble or anxiety at all.

"There is really only one recognized breed of Indian Game, as described above. Whites have been shown as such, and appear recognized in America, but are mere mongrels, and were protested against by the Indian Game Club in 1900. A soft bird, with neither color, nor marking, nor lustre, has no right to the name, and is not likely to preserve even the useful qualities for which the breed is valued, and which depend largely upon unbroken pedigree. Such birds would be disqualified by any competent judge recognized by the Club.

"In a somewhat different category must be placed an undoubtedly pure breed of which very little is known now, but of which specimens were occasionally shown years ago under the name of Blue Madras Game. We have felt in some doubt whether they could most properly be mentioned under the heading of Aseel, or in this place. Their undoubted gameness would rank them with the Aseel, as would also their shorter legs and low carriage. But their large size, their much better laying than anything known of Aseel, the fact that they never sported white, while they sometimes did sport nearly black in the cockerels, and especially the *lacing* which distinguished them, seem to place them most properly here. At all events, while clearly not Aseel, they were undoubtedly a pure local variety of real 'Indian Game,' if not directly allied to the Cornish bird of that name, and had many qualities in common. For the following details we

are indebted to Mr. R. Gordon, of Cheviot Cottage, Leven, N. B., and shall be pleased if they awaken some renewed interest in a variety which otherwise must soon become extinct:

"I fancy there are now very few specimens of this breed in this country, and doubt if more than one or two importations ever were made. Mr. R. R. Fowler imported some birds from India many years ago, and he stated that they were brought from the interior for over three hundred miles on camel-back. For myself, I kept the breed for three seasons, having obtained some stock from his original strain. Although very fond of them, I finally cleared them out, simply because I had not the space to do equal justice to them with other breeds I then had.

"Still, the breed was a good one. The birds were large, adult cocks weighing from eight and one-half pounds to nine pounds, and hens about seven pounds. In color they were something like the Andalusian, but with less gray-slate, and more clear blue in their plumage, than the latter. They were also laced something after the Andalusian pattern, sharp and narrow round the margin of the feathers, and the color of the lacing was dark blue. The hen was one uniform shade all over, hackle excepted, the latter being dark blue. Tails were solid color, not laced. With regard to the cocks, breast and wing-bars were similar in color and lacing to that of the hen's body, and the tail was also solid blue in color like that of the hen. Neck-hackles, back, shoulders, wing-bow, and saddle very dark blue, many specimens throwing a lot of red in neck and saddle. We never found any red feathers in the hen. Legs were dark slate; ear-lobes red. The comb was a very neat, low-set pea-comb.

"This breed did not throw all blue chickens. Perhaps twenty per cent or thereabouts of the cockerels came pure black, and these generally grew into the finest of the flock so far as size was concerned. No whites ever appeared, and none of the pullets ever came other than blue. The shape of the birds was also very pleasing. They partook of something of the character of the Indian Game, but had hardly anything of the angularity of the latter. That is to say, they were fairly short and close in feather, broad built and cobby, short in leg (much shorter than Indian Game), stout in bone, nicely curved neck, which was also fairly short, and in harmony with length of leg, and wings carried well up, the butts showing clearly.

"I found that the best way to mate this breed was a rather dark cock with good lacing to clear blue hens, also showing good lacing. Many of the latter were of a beautiful dove-color, and well adapted for the breeding-pen."

American breeders who think so much of the White Indian Game will not relish the statements of our English writer who calls them mongrels, but this same tune has been sung both here and in England so many times, to so many new varieties that have prospered, that but little attention is paid to the word. The demand of the public has become of so much more importance than the demand for true breeding, that it is almost useless to try to bar a new thing by crying "mongrel."

(Concluded next month.)

ANCONAS.

The New Ancona a New Variety. The Old Variety Has Been Bred With Us.

Our Standard has for some years given recognition to Anconas, describing color as black and white in broken colors about equal. We class them as Leghorns and describe them as we do our Leghorns for shape, but the new order of things as demanded in England changes much of this and calls for a black fowl with a white tip on the end of each feather. So far the Ancona has gained but little position or prominence with us, and for this reason it may be well for us to consider the adoption of the English style at this time rather than to run along with our present standard demand for color which is "Broken black and white evenly mottled."

For the benefit of our readers, we quote as follows from the advance

and had been imported direct from Italy. Though the black and white is the only variety in this country, they may be found white, yellow, and red in Italy, and golden-red feathers sometimes still appear in the hackles and tail-coverts of the cockerels. The permanence of type is very marked, it being quite easy to trace the descendants of a particular hen through five or six generations, and among the many hundreds of chickens hatched we have never had 'a sport.'

"It is unfortunate that the present standard has led to so much crossing, and to the loss of so many salient characteristics of the real Ancona. Many of the winning birds in 1900 showed distinct traces of other blood both in size, carriage, and plumage. The desire



MOTTLED ANCONAS.

copies of Mr. Lewis Wright's new book on poultry, in which he gives full information as to the origin and advancement of this variety, as we term it.

"As to when Anconas first appeared in England, we have no certain knowledge. Many of our best-informed authorities remember birds of the name in the early fifties, and there is a theory that they were a cross between Black and White Minorcas. If so, they could not have been the present type, either as regards leg-color, shape, or hardness of constitution. There is little doubt in my mind that they are a cross between the Black Valdano of North Italy and the common barn-door fowl of that country, and an advertisement appeared in the *Cottage Gardener* of 1854, offering for sale a pen of Anconas which had won a prize at Birmingham,

for size will militate against their usefulness as layers, and the introduction of Minorca blood, now so much in evidence, will tell against the hardness of constitution, which is their chief merit. They will feel cold and damp as do Minorcas, and cease to be a hardy breed. Only a short time ago they were described in a poultry paper as 'not real winter layers, requiring to be kept in warm shelters during cold weather, lest their combs should be frost-bitten and injure their egg-production.' This truly describes the Minorca-Ancona; but the real Ancona, as I have already stated, needs no such protection, and I do not remember a single case of frost-bitten comb except when the birds have fought. Then the alert carriage, the high, proudly-carried tail, the air of conceited superiority, as if earth were

not good enough to walk on, is being replaced by a far more humble carriage. The bright yellow legs are often clouded with black or ugly white, and the vivid white and black of the plumage, has tended to become all black with tiny flecks of white. It is to be hoped that some modification may presently be made in a standard which is now producing birds that have no right to be called Anconas, and which, being neither useful nor beautiful, will not long retain public favor.

"The last paragraph indicates the fact that a 'new type' has come upon the scene. The first discussion which arose amongst exhibitors was whether the shanks should be yellow as in Leghorns, or yellow spotted with black. This was happily settled in favor of the old type with black spots, without which a real beetle-green black would have been very difficult to preserve, and which was also found amongst most of the best laying birds—a relic doubtless of the Black Leghorn parentage. But fanciers next proceeded to deal with the plumage, and from the 'utility' point of view the decision arrived at, to define plumage as black with uniform tipping of white on each feather, is to be regretted. It was admitted that this color did not exist, and had to be bred; and it has been openly avowed in several quarters that some, at least, of the new birds were bred from new crosses in England, in which Black Minorca and White Leghorn played a leading part. The Anconas now exhibited, therefore, are of very various parentage. Some are really of Ancona strain, bred to smaller tipping of the feathers chiefly by selection, and accordingly have preserved many of the qualities of the race; but others have not one atom of Ancona blood, and show neither the wildness nor the prolificacy of the original breed. Mr. E. Cobb, who took a very leading part in this remodelling of the fowl, wrote frankly of the change that 'those who launched the Ancona as an exhibition fowl will only have themselves to blame if in years to come it has lost that for which it is now recommended; but being launched, and having taken the hold that it has on the fancy, I am of the opinion that it will pay the fancier more profit if it only lays 100 instead of, as at present, 200 eggs a year, and that by the time this does happen, another breed will be found to take the utility place vacated by the Ancona.' That is the real case, as put by a most competent judge, and the principal advocate of the 'new style,' and we think the change one to be profoundly regretted. It will be manifest that such as wish to breed the fowl for its useful qualities, will do well to secure the 'old style,' which is still kept up and advertised even by some who also breed the new. Even of the new, however, all are not alike, as above intimated; some strains being mainly bred (with somewhat less attention to exact marking) from the old Ancona strains.

"The following notes on the exhibition type of Ancona are furnished by Messrs. Heap Brothers, of Worsthorne, near Burnley, well known as successful exhibitors.

"This breed, it is generally conceded, was imported into this country from Ancona in Italy, where it has been kept in large numbers by the farmers of that district for its utilitarian properties. Certainly it ranks as one of, if not the very best layer extant. We have frequently heard Anconas decried

as layers of small eggs, but as with most breeds, we consider this to be more a matter of strain. The strain that we keep lay eggs which average over two ounces in weight, which we consider quite up to, if not above, the average. As we have said before, they were imported into this country for their exceptional laying qualities, and the reception there met with has scarcely been equalled by that of any breed in recent years. They are, indeed, very profitable fowls from a utility point of view, as they mature very quickly, pullets very often commencing to lay when about eighteen weeks old. The cockerels are also very precocious youngsters, crowing frequently at five or six weeks old. As table fowls they can scarcely be recommended on account of their smallness, but their flesh is excellent in flavor.

"It was not long before they made their appearance in the exhibition-pen. About the year 1898 a difference of opinion arose amongst Ancona breeders as to the type of bird which should constitute the standard, and at a meeting held at the Dairy Show in 1899, which was well attended by the principal breeders, a standard was drawn up and passed as a guidance to breeders what to breed for. This standard met with much opposition at the time, and was the subject of much controversy in the poultry papers. The question finally resolved itself into how large or how small the tipping at the end of each feather should be, also the way the feather should be tipped. We favored, as we do still, the small V-shaped tip. Were they tipped or mottled—call it what you like—to the extent of three-eighths of an inch, as some breeders contended, on each feather, the bird would present almost the appearance of the white one, as the ground-color would be covered by the feathers overlapping each other. The Anconas one saw at exhibitions only about a year or two ago, were frequently held up to ridicule for their mongrel appearance, and it was with a sincere desire to improve this splendid utility fowl from an artistic or exhibition standpoint, and to breed them more uniform in color and shape, that the present standard was evolved.

"We know of no breed that has made more rapid strides in the time towards attaining that end, than have Anconas. When we consider that there have only been two breeding seasons since the present standard was made, the success achieved has been remarkable, though certainly there is still much room for improvement. In cocks, a few years ago, one scarcely saw anything but white tails, tipped with black, which were certainly not uniform with the body-color. Our aim is to breed them with a good beetle-green ground-color, with each feather tipped with white throughout the entire bird.

"In mating Anconas to produce exhibition birds, one needs to be very careful in the selection of stock birds. Examine each bird carefully, and discard any that have white under-color. This is a very common fault, and one that breeders should take pains to exterminate. Another evil to be avoided is lacing, by which we mean a white edging around the feather. Choose those with (as nearly as you have them) the V-shaped tip, with the white clearly distinct from the ground-color, which gives the bird a slaty appearance. Select for the male bird one with a firm, erect comb, evenly serrated, serrations deeply

cut, face a brilliant red, white face in Anconas being a disqualification and not merely a defect; lobes medium in size, almond shape, and white; body-color as nearly to the exhibition standard as possible; legs deep yellow, with black mottling evenly distributed. Be careful about the tail. Examine the bird and see that the feathers are black from the skin; many begin white, then are black in the middle of the feather, then white tip at the end. In hens, again, be careful about selecting those with sound under-color, and in color we like them rather on the dark side; we mean darker in appearance than required for exhibition. A frequent fault in Anconas is that they carry their tails too high, squirrel fashion; try by all means to breed this out by selecting only those with low tail-carriage.

"It may seem that there are many points to avoid, and so there are; but if one wishes to produce really good exhibition specimens, it is much better to breed from two hens and a cock which have the qualifications to breed standard birds than a field full of so-called Anconas of the old "splashed-anywhere-you-like birds," which give one the impression that they had been splashed with a white-washer's brush.

"Another point in favor of the new standard is that cockerels and pullets may be bred from the same pen, as the color of both is identical in every respect, with the usual sexual differences. This is much in its favor. We think the reason for the apparent decline in many breeds such as the Hamburgs, is mainly that two pens are required, one for breeding cockerels and another for pullets, many working-men fanciers not having accommodation for what becomes practically two breeds. Of course, there are birds naturally better adapted for cockerel or pullet breeding, such as a hen with an erect comb, which (had she other requirements) might be valuable as a stock bird, though not for exhibition purposes.'

"The above article, it will be seen, is able still to speak well of the newer exhibition style of Ancona when bred to in moderation; what is to be feared is the result whenever the plumage is bred, as is avowed to be the object of some, with the uniformity of a Spangled Hamburg.

"A rose-combed Ancona has been lately introduced. It calls for no particular remark, even if it should establish a position, which is uncertain. Of course, mere varieties of any breed can be multiplied to an indefinite amount."

ENGLISH STANDARD AS TO WEIGHT AND COLOR.

On the subject of the size of the Ancona we have been led to believe they should be small, but we see by the English Standard that the males should weigh from six to seven pounds when full grown, and the females from five to six pounds. This we should call fairly good size for a Leghorn.

The color of both male and female is described thus: "Plumage good beetle-green ground, tipped with white, as evenly mottled throughout as possible, with no inclination to lacing." We should in this country consider that this described a black fowl, very rich in sheen, with each feather ending with a white tip. So far none of this style have been seen in this country.

TO GAIN THE BEST RESULTS.

Natural and Artificial Methods Applied.

Cold and damp are great destroyers of young chicks. Many are lost by these effects alone, while others are so much injured as to be removed from any chance or hope of ever becoming high-class specimens. This fact is true, whether the chicks are in the care of a mother-hen or in the brooder. There seems to be an impression that chicks are absolutely safe from all harm when they have the protection of the mother-hen. This, however, is an error. The hen will not stop and hover the chicks at their demand; neither will the chick when quite young go as often as it should under the hen or into the brooder-hover.

As long as chicks desire food they will eat and hunt even when so cold that they cry in their distress. They have been seen to stand within a foot of the natural or artificial protector, seemingly so cold as to be unable to reach the shelter they so much needed. When forcibly placed within warmth they may recover life, but will never develop constitutional vigor on account of the exposure. Proper conditions from the start have every influence over the future qualities of the chicks.

Frequently there is too much haste employed in transferring the young to their early home. Whether incubated by the hen or the incubating machine, it is better not to disturb them until at least twenty-four hours after they are out of the shell; often thirty-six hours duration is better. When removed from the nest, with the hen they should be kept within for another day or two upon a dry board floor, strewn with chaff. When they are removed to a brooder, it should be an inside brooder that they may be protected from the cold. Those who have recognized the importance of these precautions gain their reward tenfold.

TO START INCUBATING.

A majority of breeders are of the opinion that they need no advice as to the best methods of setting a hen. At the same time, for the benefit of a chance shot, or to those new in the business, a few suggestions in regard to the construction of the nest may be of value in the way of removing all chance of cold influencing the temperature of the eggs. It is well known that the incubator will not do the best work when placed in a room, the temperature of which changes many times during the day. This change of temperature will affect the temperature of the eggs under a hen unless the nest is so built as to help in retaining the heat.

The nest made on the dry ground is the best, for the cold and heat can not play continual pranks with this kind of foundation. When a nest is made in a box, during the cold weather the changes in temperature will have full play through the outside and bottom of the box. On this account, the nest should be so built as to form a protection about the eggs from the under and outside. Such care will prevent many a germ, already formed, from rotting away. All rotten eggs had life within during the stage of incubation. If from some cause the germ is destroyed at its in-

ception, the result is a rotten egg. Many persons are not aware of this.

INFERTILE EGGS.

We are quite apt to consider all eggs that do not hatch as being infertile. This is not a fact. All infertile eggs will continue in the natural condition during the three weeks of incubation. They are what we call clear eggs. They are the infertile eggs; the others that do not produce a live chick may be divided into several classes; the larger proportion of these have had the germ destroyed by some means or other. The egg that is kept too long is apt to have a weak germ, which is sure to die at some stage of incubation. If the germ is killed before the egg is placed under the hen, or if it dies during the early days of incubation, the result is a rotten egg.

The question as to how long the germ will live is an unsettled one. A breeder had thirteen White Leghorn eggs sent to him last season which were kept unpacked for five weeks; after this time they were given to a neighbor who placed them under a hen, with the result of ten or eleven good, healthy chicks. This shows that eggs can be kept over six weeks and then produce well. It is not thought best to keep eggs so long, but experience teaches that they will hatch, and that it is not necessary to even turn them during the time.

The problem of furnishing eggs for hatching is one of much consideration. Those who receive the eggs usually consider that the purchaser should be responsible for all eggs that do not produce chicks. The merit of this claim will not be discussed here further than to remark that, while it may be just to demand a consideration for the clear eggs, it is too much to expect the seller to make good for the eggs that are rotted under the hen, for there are so many conditions which lead to this while under the hen that could not be blamable to the seller. Some of these conditions are herewith explained.

The surest method for obtaining fertile eggs is to keep the fowls that furnish them busy all the daylight hours, making them hunt and dig for their food. During the cold weather it is well to rake the food into the dry earth and litter after it has become dark so they will find it when they come from the roost in the morning. The fact that they find the grain when they dig for it encourages them to continue hunting. This continued hunting all day long keeps them in the best condition for laying fertile eggs. This kind of exercise invigorates the male as well as the female.

CARE OF THE CHICKS.

The only way to encourage the mother-hen to continual care in hovering her chicks is to feed her all she will eat, so she may not be obliged to exert herself for food. When the nights are cold, in fact at all times, it is a good plan to leave plenty of food in the coop over night so that both mother and chicks may be satisfied as soon as it becomes light enough for them to see to eat. In this way they do not become restless

and the chicks are better cared for by her. At all times the hen should be confined in the coop until almost noon. When it is wet or cold she should be so confined all the time. When so constrained and well fed she will usually cover the chicks as they desire. Some never allow the hen to roam about with the chicks, simply allowing the chicks their liberty so they may come and go at will.

The larger breeds do the best when not allowed to roam about following an active hen, for the reason that too much power is expended in this continual chase after the hen. This strain upon the motive-power draws upon the very sustenance that is needed in building up bone and size. When this is lost during the first two months it is seldom regained. If the growth which should be obtained within the first six weeks is not realized the chicks will never grow to standard size. Three-fourths of all the fowls that fail to come to standard weight lose this opportunity prior to weaning-time. They should be kept growing continually from the day they come from the shell until fully matured if it is hoped to bring them to proper size.

Small females seldom produce large offspring. The start for standard size is to be found in the hen that lays the eggs. With fine, large specimens of hens for breeding, the chicks obtained, if properly cared for, will come to full size in six or seven months. Afterwards it is simply a matter of good feeding that will bring them well up to weight. Too much attention can not be given to selection of the females for breeding purposes. Large females with medium-sized males will produce good-sized chicks; but undersized hens will not produce large chicks, even when mated with the largest males.

Large bodies and small bones do not constitute the best breeding stock. Large, strong shanks are indicative of good, strong bones. Specimens of good size, having strong, well-set thighs and shanks are the proper build from which to reproduce large, strong specimens. In Brahmas the Standard calls for shanks on females to be medium in length and stout in bone. For Cochins, shanks short and stout in bone. If we hope for large, strong chicks these requisites are just as important in our breeding-pens as in the show-room.

BROODER CHICKS.

Notwithstanding any or all statements to the contrary, if properly and well done no method of raising chicks will surpass the proper brooder system. After using the brooder system, were one to have the time to give it personal attention, the hen would not be employed to replace it; but should the management of the system be poorly done it would be absolutely useless to attempt their use with the idea of being successful. For while the brooder, of proper construction, needs little attention, the busy man who is a mile or so away can not even give the demanded care, however little it may be. While close by one on the table, the use of a lamp is quite simple, should anything happen to it were no one about, the result would be disastrous. It is not the purpose here to discourage the use of the brooder; on the other hand, they are to be favored, but they require as much attention as does the hen with her brood.

When the chicks come from the incubator, where they come into life with no chance of insect troubles, they enter



the brooder unincumbered, in good health and clean bodies. The brooder heat should be ninety degrees when occupied by the chicks, but not at this degree before they are placed within it, as the heat in their bodies will add to the temperature and make it too warm. The inside heat of the hover should be ninety degrees only when the chicks are within, and maintained regularly at this temperature and not allowed to go above ninety-five degrees. After the first week the heat is to be reduced gradually, running a little lower each day, grading it with a view of obtaining seventy degrees when the chicks are four weeks old.

During the early spring months all kinds of brooders should be under cover. It is better to have them sheltered at all times from rains and winds. Although the outside brooder will do good work when not under shelter, it is of advantage to have them protected, that they may be looked after more satisfactorily in bad, wet weather. The shelter also

provides an inside run for chicks in all kinds of weather. These precautions remove all danger of damp and cold.

More chicks are destroyed in brooders by over-heating than by any other cause. If an even temperature at a proper degree is maintained the chicks are contented. We often see the chicks crowding together when the temperature has gone down; then up goes the lamp, causing too much heat, resulting in injury to the chicks. Properly the heat should be turned on gradually; if possible to do so the chicks should be removed into the run, and fed a little while the heat is gaining. When it is dark this can be done by coaxing them out by the use of a bright light. When they re-enter they will not crowd so much together, and thus a regular heat is obtained of the proper temperature, obviating all trouble.

FEEDING THE CHICKS.

Never feed the chicks at all until they are one day old. Nature provides for

them prior to their coming from the shell. There are as many breeders against the use of hard-boiled eggs as there are those who favor them for early diet. The reasons advanced for both are good and true. It is not the purpose of this article to further any ideas for or against this diet, more than to add the personal experience of the writer, who for over twenty years fed every chick that was in his care with a mixture of hard-boiled eggs and bread-crumbs for its first meal, the shell of the egg always broken very fine and mixed with the food for grit. This food has been followed in every instance with bread softened in milk, squeezed thoroughly dry between the hands; next, small oat-meal or cracked wheat is fed thrown upon clean, sharp sand covering the floor. In picking the broken grains, considerable of the sharp sand is taken up. The best feeding-trough for young chicks is a round tin pie-pan, half filled with fine, sharp sand. Upon this all of their dry food should be fed.

The trouble which comes from feeding hard-boiled eggs is the result of too much of the egg and nothing else. If their first meal is given of egg and bread-crumbs, their second of the bread and milk with all moisture absent, and the third meal of the small, fine oat-meal, the trouble from too much egg is remedied. Usually one meal each day of the egg, for at least a week, is the proper plan to follow. A fowl can not consume its food without grit; neither can the young chick. For this reason the chick when kept in confinement must be well provided with a proper kind of grit to suit its age; first small, sharp sand followed with small chick grit or good, sharp gravel. Chicks kept on a board floor when they can not get grit of any kind soon look bad and sickly, and cry out all the time, suffering internal distress.

A mixed grain diet, composed of all kinds of grain broken fine and mixed together, is a very commendable diet. To this may be added some broken dry peas and beans, also some charcoal broken very fine and some fine grit. All of the bantams owned by the writer of this article are fed, from the time they are hatched, this mixture of grains together with Spratts' Food for Chicks. These have been found excellent for them. Such a dainty diet will not answer for young chicks of the larger breeds, which demand all they can eat of a heavier and stronger substance.

To grow the larger breeds to proper size they should be continually fed, all they will eat, the richest and strongest food as soon as they have passed the threshold of infancy. For the first two weeks they should be given hard-boiled eggs and bread, also bread and milk prepared as mentioned above; also corn-bread, broken wheat and oats, and some very fine broken corn and plenty of grit. They may be fed all they will eat of this kind of food. When they are two weeks old to this may be added plenty of properly-made soft food or dry mash, made of fine ground corn and oats mixed with some bran and middlings, gradually adding some beef-scrap until they will stand the mixture being made at least one-fifth of the beef without bringing about bowel trouble.

When properly and carefully fed on such diet they should grow very rapidly. A quick supply of broken corn should be fed to them at all times in addition to their other food, if they are strong and growing chicks of the large breeds.

They may be encouraged to eat all they will which will keep them growing. Injury comes not from over-feeding but from irregular feeding. If the chicks become hungry, when they are fed they will fill their crops too full, then they will drink too much water, quenching the thirst of an overfilled crop, bowel trouble resulting. Regular and proper feeding is as necessary as good food and plenty of it.

WATER AND GRIT.

The water-supply should never be allowed to run low, from the time the chick takes its first drink until its days are ended. No animal craves water so much as a fowl when deprived of it. The thirsty fowl or chick never wants to stop drinking after being a long time deprived of water, drinking as long as their crops will hold another drop. They often drink so much that the water runs from their mouths when they bend their heads for more. The reason for their doing this, it may be presumed, is from the heat or thirst from within the gizzard when the food is ground.

Whatever may be the cause the results should teach that they should never be allowed to be without a supply of water during the season of growing. During the cold months of winter it is different, but the highly-fed, growing chicks must have plenty of water always on hand, without which they will not prosper.

Grit is the digestive factor of fowls; without it they could not live. With a limited supply they will exist. Only when they have plenty can they be at their best. As to what it shall be is not of as much importance as that they should have it. Plenty of good, sharp sand and gravel is as good as anything on earth. All that is necessary is to be sure they can get it. But they can not find it in confined quarters where there is none to be found. Every poultry-house should have a box containing three compartments; one for shell, one for grit, one for charcoal, and should be kept well filled at all times.

Hot Shots.

The bad, stormy days are at hand in some localities and coming fast in others. Are you ready for them? Is your henhouse in order, and have all the wants for winter been attended to, or have they been neglected? If neglected the hens will fail to lay and all your high-priced food will go for nothing. Feed will be very high this winter, and a cent's worth of care will save many dollars' worth of high-price corn, oats, and wheat. One small opening that might be closed with a hammer, a wedge, and some rags, may let in enough cold to consume the heat so fast that it will take a lot of food that might go into eggs to keep up the body-heat of the hens. If no dry earth or sand has been put on the floors and covered with straw or other good litter, how can the hens scratch and hunt for their food so as to keep up their health and vigor? Oh, what a lot of waste a little neglect will make!

Keep what you have and hold to it tight, Stop up the cracks and keep frost out at night.

Asiatic Fowls.

We can scarcely contemplate the advantage the Asiatic fowls have been to us. They are among our very best breeds in their purity; they stand all

kinds of climatic changes and prosper; the changes of locality and modest surroundings bother them but little; they are good market poultry and egg-producers, and heavy-weight fowl or capon, and in addition to this they are par excellence fancy or exhibition fowls. None of our many kinds can excel them in beauty of form and plumage, and their colors are rich and attractive.

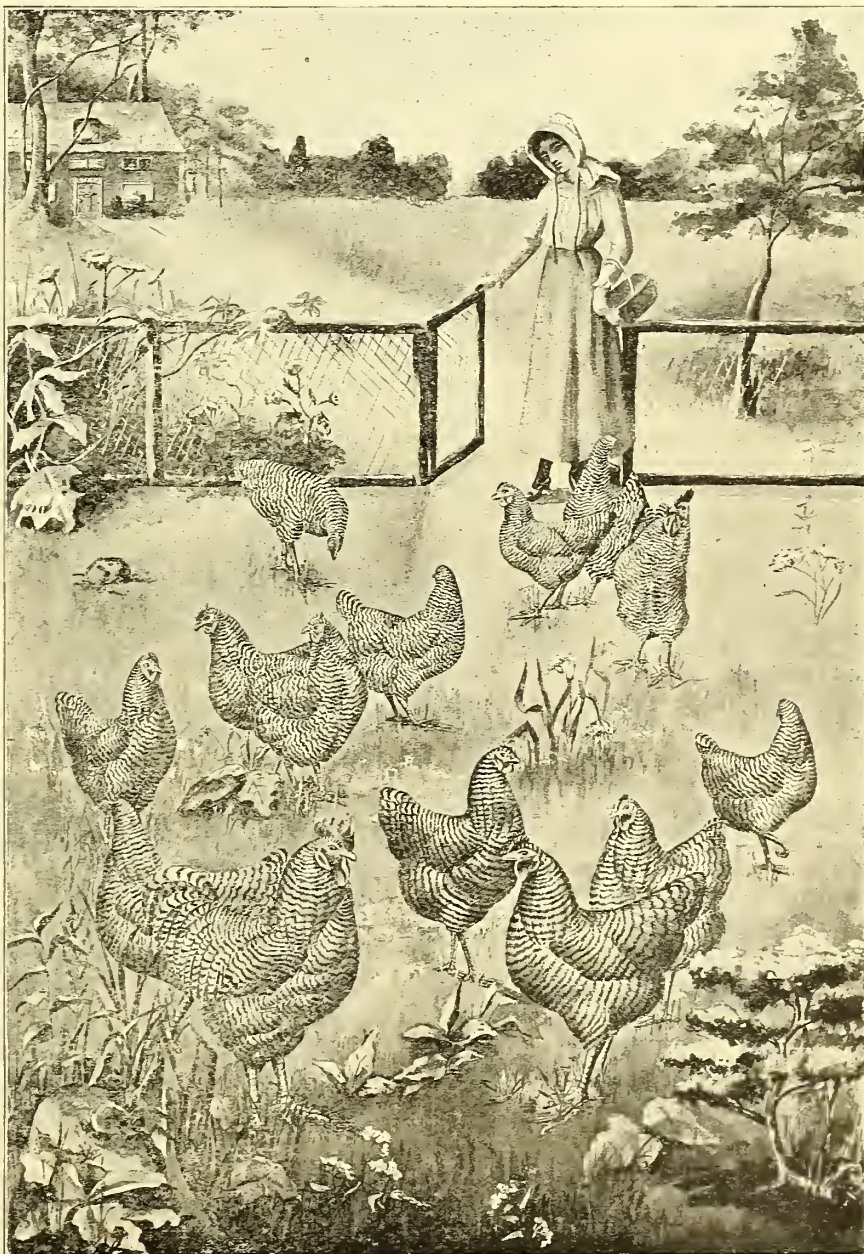
But in addition to all this they have aided in the formation of our American breeds. They have furnished the beautiful golden hue to our many new buff breeds or varieties. The Plymouth Rock, the Wyandottes, and the Rhode Island Reds, count them as their ancestors. French writers tell us that the high qualities of the Cochin and the Brahma prompted the formation of the Favorolles. Scarcely a new breed or variety has been built since the coming of the Shanghai, but reflect their qualities. They brought us the brown-shelled egg; a trait so strong as to make its presence felt wherever it may be.

Truly they have revolutionized the whole poultry business of the world.

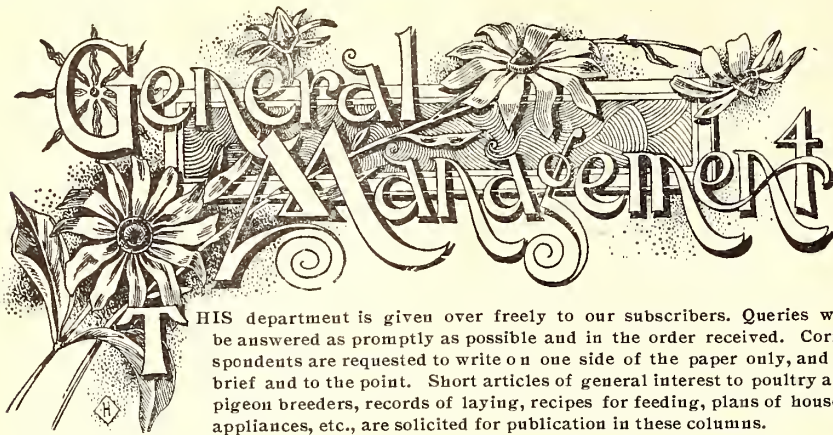
In color they embrace the beautiful golden-buff, the rich, glossy black, the white, and the parti-color of white and black; in form the massive stature of the Brahma and the rotund form of the Cochin. Size, strength, and vigor are imparted by them to all cross-breeds that trace to their ancestry. The Orient has truly sent us a most valuable addition to our feathered tribe in the personnel of our Asiatics.

Fine Birds.

Brother Thompson, of Amenias, N. Y., is in it with both feet this winter. His Ringlets are bluer and better than ever. We had a slight inkling of the quality in sight, so took a day off to look them over. No use talking, Ed. does know how to mate for high quality. We saw hundreds just overflowing with quality. Were glad to notice the unusually fine growth the young stock has made.



A FAMILY OF FAVORITES.



THIS department is given over freely to our subscribers. Queries will be answered as promptly as possible and in the order received. Correspondents are requested to write on one side of the paper only, and be brief and to the point. Short articles of general interest to poultry and pigeon breeders, records of laying, recipes for feeding, plans of houses, appliances, etc., are solicited for publication in these columns.

Handling Colors.

The handling of colors is a matter of much consideration. There have been more pages written on the production of color on Barred Plymouth Rocks than could be contained within the covers of the largest dictionary. Man might begin to-day to carefully study all of the many theories advanced on the subject of proper color for this variety, and at the close of a year not have finished the subject, and finally when his work was accomplished he would then have no true solution of the problem. Unfortunately this is a fact and furnishes one of the most perfect examples of the lack of science in the handling of one of the popular, if not the most popular, fowl ever known. More attention to quality and record of production might have established more certain color. Never can this be accomplished by mating extremes of color. The true solution will be found in the continued union of the desired colors for a number of years until the true color is properly established and the reproduction of same made a fixed fact. The work of years can not be hoped to be undone in a short time. This object should be mapped out, and the labor pursued year after year with care and determination; then success will come.

White in its purity is the absence of all color. This can only be found in a substance that has been thoroughly bleached like paper, as it comes from the bleach-tubs, so very white it almost blinds the eye. Exposure to light and air begins at once to taint the pureness and give some color. So with our white fowls; the demand for yellow beak, legs, and skin fills the quill of the feathers with the yellow influence that changes the pure white to a creamy or yellowish cast. This taint of color under the influence of sunlight and air changes to a yellow surface that which hides a pure under-color. Whereas a breed or variety of white fowls, line bred for years, to have white beaks, legs, and quills will grow so free from foreign taint that but little bad color will show in their plumage. This is the result of almost total absence of color in their system other than that which is furnished through the blood. When true, white plumage must be had, accompanied with the yellow influence of legs and skin only, a limited number can be produced, and these few only by the greatest of care in shielding them from the influence of sunlight or its glare. No one has yet been able to so control these two colors as to keep the

color of the skin from influencing the plumage; nor has any theory been advanced as to how this can be accomplished in any other way than shielding a fairly white specimen from all exposure.

The only way to produce pure-white plumage to any certainty is from specimens pure in color, quills included, that have very pale-colored beaks and legs. This influence continued from year to year will establish the purest of plumage, accompanied with very pale-colored beak, legs, and skin. In no other known way can pure-white plumage be produced to any certainty.

Black is the kindred color to white; either may be a "sport" from the other, more frequently the albino from the black. Often the purest white fowl of the season comes from black parents.

The production of pure-black plumage is most difficult. To secure and maintain a rich, glossy black plumage is the work of no little skill. This color to be substantial must carry with it rich black beak, legs, and quills to the feathers. The color of legs and quills should be bright, shiny black, not dull, brownish-black; under-color, flights, and fluff must be free from the brownish shade so often seen. To produce a true black to any certainty, only rich, true-colored birds, as above described, can be tolerated as breeders. The color of neck should be black to the skin; in fact, under-color of the whole plumage must be black to the skin, and the male bird should shine with the rich, greenish sheen. This same luster is most desirable in the female also, and while the

union of these rich colors will produce some specimens showing red and bronzy necks, it is better to have to slaughter for this richness of color rather than for white. The finest black-pullets yet produced come from males showing this rich bronzy-red in neck. While it is dangerous to encourage any of these bad colors in plumage, a very rich-colored male with grand, good wings, showing shiny black quills to plumage and the bronzy color of neck and wing-bow is the most advantageous cross when color of females is lacking.

The most difficult problem in black fowls is the confining of the white to the crest of the White Crested Black Polish. This can only be accomplished by using the richest possible cocks, having bright black flights, with very shiny quills and bright, glossy black legs. If the specimens of this kind having fine white crests can be continually mated for generations the two colors can be controlled, providing several families of partial relationship can be maintained, to give renewed vitality to each other without violent crossing.

This consideration of white and black brings us into direct opposition with the rules of the Standard, also the unproven opinions of many people. The direct demand of the Standard for rich yellow of beak and legs for white fowls is a proper demand for two of the very best of reasons—better constitution and

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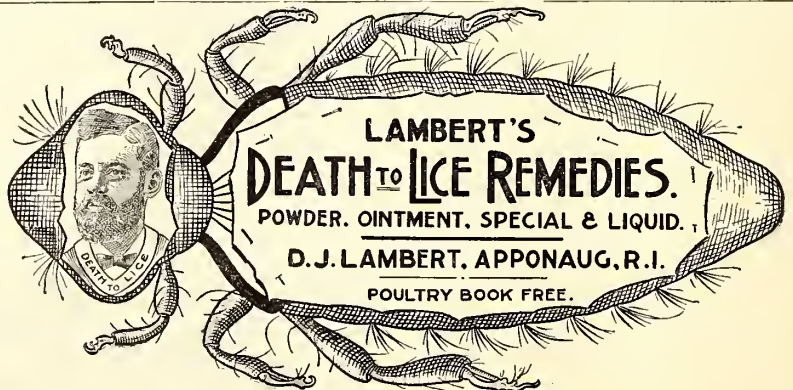
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vigor comes with them and it makes the most desirable market fowl. These reasons should guide and also govern to a very great extent. But when we also demand a pure, untainted white plumage, with the same rich leg-color, a problem is placed before us that one has not yet solved only by the science of preparation and handling. We often see a head of very light hair, in fact almost a pale lemon, on the head of some well-cared-for woman or child. Water well saturated with some preparation of soda used each day has this bleaching influence. The same solution can be used in washing fowls, but this is not the natural production, it is skilled handling. Often this ability to properly prepare for exhibition makes one think the secret of production is solved. The same conditions confront us in black fowls. For the Cochin, the yellow color for the bottom of the feet positively demanded and allowable for legs; Langshans, bluish-black, pink and white for legs and feet; Black Leghorns with yellow legs and still we demand disqualification for a showing of white in plumage. In all cases beaks and legs as dark in color as can be are the proper matings to keep them from being disqualified. No other one feature will help so much to keep out the white in plumage.

The handling of penciled, barred, and spangled plumage is the most difficult. No true rule has yet been formulated, after one hundred years of close study, that will guide an expert to the sure production of even presentable Sebright markings. Consider the uncertainty of Wyandotte lacing and the penciling of the Partridge Cochin female. Here we have almost an endless study of how to produce these markings to any certainty. We who call ourselves experts should stop and consider the real condition of color and markings, its uncertainty of production and the vast field for improvement, grasp the situation, and realize that the breeding of fine poultry has hardly begun its existence, having just burst from its embryo state.

Black Leghorns.

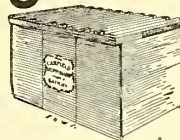
Now and then we see a few good Black Leghorns and they are an attractive sight, but they have one drawback that the American Poultry Association should remedy, and that is the color of shanks. Why not make them the same as Black Wyandottes, "shanks black, shading into willow or yellow"? Give the preference to dark shanks for Black Leghorns rather than to the yellow; in this way the variety would be encouraged toward good color. They have good shape as seen, but are bad in earlobe and color, simply because the yellow shank hampers them from having rich, glossy black with a greenish sheen throughout.

The beauty of any black fowl is its brilliant, rich, greenish-black color. The finish and gloss are what count with them, and without them the color is dull and brownish looking, a condition that should be guarded against, and the best way to accomplish this is to allow the dark color in shanks. If a beautiful specimen of rich color can be produced with yellow shanks all well and good, but the oldest inhabitant has not seen any such up to the present time, so it seems to be love's labor lost in a cause that gives but little return. The Black Leghorn at best can only be a fancier's fowl, and why not make them as beautiful as possible?

Another fault in the Black Leghorns could be remedied, and that is the lack of size. If the dark shanks were allowable, as they should be, a Black Leghorn male could be crossed upon a Black Minorca female that had the Leghorn type largely in her make-up, and in this way size, color, and ear-lobes would soon be improved; but so long as we continue to demand dark shanks for these Leghorns, just so long will they continue to be faulty and out of the race for position as an exhibition fowl.

It is quite as reasonable to encourage those who breed the Black Leghorns as it is to help along those who have the Black Wyandottes, and undoubtedly it would be done if the case were presented in the proper light by those who breed the fowls; but so long as they find no fault nothing will be done in their interest. These points should be considered by those who have bred the Black Leghorns, and their experience should be our guide in making any change in the Standard for the color of shanks on Black Leghorns.

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Silver Penciled Wyandottes.

Editor The Feather:

I am a breeder and lover of Wyandottes. All of the varieties have charms for me and it would be hard for me to decide which one I like the best. Visitors passing my yards will exclaim over the purity of the White, the loveliness of the Buff, the queenliness of the Partridge, the beautiful lacing of the choice Silvers, but when they come to the flock of Silver Penciled pullets words fail them. I never yet had a visitor but he pronounced the Silver Penciled the peers of any variety of Wyandottes in beauty of plumage. It is impossible to describe the effect of a flock of pullets whose plumage represents such a soft blending of the same colors as are shown in striking contrast in their male companions, and this modest gray while, perhaps, not as striking as the colors of some other varieties, is none the less pleasing. Upon close handling, what feather is there that is more pleasing than this soft gray with the dark penciling? The modest color of these birds never grows tiresome but increases in its charm and attractiveness; and for this reason I will venture the prophecy, that while the Silver Penciled Wyandottes may be slower to attract the attention of fanciers than some of their more brilliantly colored sisters, when once taken up they will be there to stay, and so will gradually become one of the most popular varieties of Wyandottes.

Any new variety to become permanently popular must have something more than beautiful plumage to recommend it to the public. It must first demonstrate its ability to equal existing varieties in the economical production of eggs, or flesh, or both; and, to be popular with the fancy, it must be capable of producing a fair per cent of show birds and yet be sufficiently hard to breed to perfection of plumage to require study and brain in the mating.

All these requirements I believe the Silver Penciled Wyandottes will fill as well as any existing breed. As layers they have with me surpassed the other varieties of Wyandottes. I was surprised to find my pen of Silver Penciled Wyandottes leading them all. The females are not quite as large as those of some other varieties, especially the Partridge; but the cockerels are large and grow and mature quickly. The pullets mature remarkably early, which in a measure accounts for their small size. For me this is an advantage.

It would be extreme foolishness for me to claim that any old mating would produce cracker-jacks in profusion; for any breeder of ordinary intelligence or experience in breeding varieties with complex markings would know this to


be a falsification pure and simple. The fact is they are not easy to breed to perfection of markings, but they are now so well established that any intelligent mating will produce a fair per cent of show specimens; and, moreover, those that are most perfect in penciling, but are a little mixed, are never objectionable culls. Their effect in the flock is not destroyed; they are still beautiful birds. Of no other variety I have in mind is this true to so great an extent; and when you do produce the real thing, show me the bird in all chickendon that can approach it!

After two years' experience with this variety I can truly say that I believe their future is assured. They need no boom. They are capable of standing on their own merits and are bound to work their way into public favor and appreciation; and wherever once introduced they will be sure to remain. With such superior merits as this variety has, there is no question of its ultimate success, if we breeders expend our efforts in perfecting them; and, instead of advertising them as paragons of perfection and arousing extravagant expectations in

the mind of the public, take care to send out only such stock as will make the purchasers their absolute captives.—J. H. PUTNAM.

The Boston Show.

It is the purpose of the management of the Boston Show to open up the avenues to success for all amateur breeders who can show at Boston in the novice classes and win more money and greater honors than can come to them at smaller shows. Any one that has never won a prize at Boston can show in these classes. Quite a few have built up a name and made good sales from having shown in these classes. Novice classes at the poultry shows are the same as the classes for young stock at the dog shows. They are for amateurs who wish to enter their stock for competition and comparison, to see how they compare with the stock of others. The entrance is the same and the premiums the same as in the other classes. They are cooped right along with the regular entries and have the same show and advantages as the others have.



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Buff Leghorns.

It is to be hoped that the interest in Buff Leghorns will not be allowed to wane. They were in the ascendancy for some time, when they had the undivided attention of Messrs. Bache, Shepherd, and Arnold, and the divided attention of Mr. Cornell here in the East, while all through the West and South many fanciers bred them to perfection. We are at a loss to know why they should be even partially neglected. It is true that many good ones were shown the past winter, but this does not constitute enthusiasm as we should like to see it displayed in their interest. They should be pushed to the front as Minorcas and Wyandottes are pushed forward. They should be illustrated as the Plymouth Rocks are constantly presented. It is the push and presentation that count.

We know full well that the size of the Buff Leghorn has been lost to a certain extent, but that can be regained. We also know that color and ear-lobe have gained considerable, as has color of shank. Buff Leghorns are better to-day than ever in quality but they have not the push behind them they formerly had. The Club should arise to the occasion and put forth an effort to gain a higher position than ever before for their favorite variety.

Hamburgs.

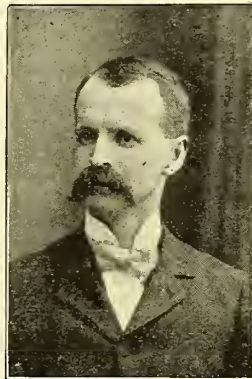
We should like to see some enterprising person give a fair trial to the Hamburg fowls as egg-producers for market. They lay on the average eggs quite as large as the run of Leghorn eggs; their chicks are no harder to raise than the Leghorns' if not closely inbred, and if attention were given to size it might be improved. We would not advise making use of large numbers of them on the start, but it is our opinion they would prove specially adapted to the country adjacent to the capital, and they would

be of nice size for small roasters when fully developed, such as our best hotels and club prefer.

We may be entirely wrong as to this, but would like to see some one try a pen or two of Silver Penciled and Silver Spangled varieties and keep record of the eggs laid, the per cent of hatch of their eggs, and the number of chicks reared of each hundred, as compared with the Leghorns. This might be easily done, and the result would be of value to all who keep market fowls. Specimens that are not fully up to show-room demands can without doubt be had at reasonable prices.

The Indiana Fanciers' Ass'n.

The third annual exhibition of the Fanciers' Association of Indiana, held at Indianapolis, Dec. 4 to 10 was a success in every particular. The annual meeting and election of officers was held Monday evening, Dec. 9, with a large attendance, and the following officers were elected: President, Lora C. Hoss; first vice-president, C. J. Ward; second vice-president, Ben S. Myers; third vice-president, N. E. Woods; fourth vice-



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president, W. F. Coats; fifth vice-president, Ed. B. Murphy; treasurer, H. D. Lane; secretary, C. W. Hackleman, Indianapolis. The new executive committee is the president, first vice-president, treasurer, secretary, Wm. Tobin, Dr. Joseph Haas, Dr. D. C. Harzold, F. P. Johnson, and H. B. Miller.



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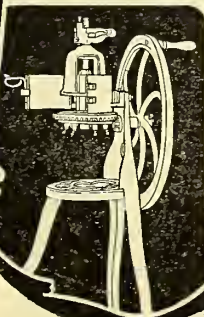
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Special Color-Plate Editions.

The *Reliable Poultry Journal*, Quincy, Ill., has issued for November, December, and January three special color-plate editions, containing reproductions of recent oil paintings by the world's greatest poultry artist, Franklane L. Sewell. The November number contains a reproduction of a pair of New York prize-winning White Leghorns, the December number a pair of Chicago prize-winning White Plymouth Rocks, and the January number a pair of Madison Square Garden prize-winning Partridge or Golden Penciled Wyandottes.

Readers of this paper are invited to send for a sample copy of the *R. P. J.*, containing one of these color-plate reproductions—your choice. Send soon before the surplus copies are exhausted. Fifty thousand copies of each edition were printed, but the demand for them was extraordinary and they will not last long. This sample copy is free if you will mention *THE FEATHER*.

Address *Reliable Poultry Journal Publishing Company*, Quincy, Ill.

Good Laying Hens.

When asked for the best laying hens we answer, those that have the best care and attention. The most inferior hens will do as well as any if they are to be mistreated and abused. Select the barnyard fowl that can shift for itself and do fairly well if compelled so to do, if your intention is to have them keep themselves. The paying egg-yield comes as the result of good care and proper feeding, and the man who has the good laying hens is the man that

gives his hens proper treatment.

The best laying strains are those that are bred in line from hens that lay well. The beauty of an egg-record is that it selects the hens from which eggs should be used for hatching. If eggs from only record-breaking hens are used for hatching, you would soon find that the annual egg-yield of your flock had increased. In this way will be produced the 200 or 250-egg hen, but such will never come to the yards that bestow poor treatment on their hens. Good feeding and proper care have quite as much to do with the results as has the good breeding. Inferior stock properly handled will do much better than the best poorly handled. A fowl that has been poorly fed and looked after from the shell to maturity will never be of much use.

Brown or White Shell.

America for American ideas goes in the hen business. Many of us never consider aught but the color of the shell when buying eggs. Some turn up their noses at brown-shelled eggs, while others will not have them, saying they are so strong they don't like them, and so it goes. The facts are that a lot of hens together that are fed alike will all lay eggs that will taste alike. The shell makes no difference in this way. Brown-shelled eggs belong to the Asiatic line of blood. Usually the dark shells are heavier and stronger than the white shells, natural to the vigor and size of the fowl that produces them. White shells are often delicate and thin, and often the yolk of the egg is paler or lighter yellow than found within the dark shells. Brahmas' and Langshans' eggs have shells that are quite

brown, and the yellow of the eggs darker than is usual with the Leghorn. This can be attributed to the larger amount of green food consumed by the larger fowls. Green food gives the color to the yolk; no one can tell what colors the shell.

We have deprived a lot of Asiatics of all manner of green food in winter and fed them cooked potatoes and turnips in their mash. The result was that the eggs they laid were a very pale yellow. Such eggs are beautiful for baking fancy cakes for home use, the yellow is so delicate. All this goes to show the influence of the food over the flavor and color of the eggs, all of which has no influence over the shell. Give all the same shell-forming material and each breed will produce the shell that belongs to its kind.

Clean, clear shells of any kind or color are of the greatest importance. This is influenced first by a full supply of grit and shell at all times. When deprived of this they will lay eggs having very thin shells. After this if given all they will eat many of the eggs will have rough shells with uneven places on them. Speckled and spotted egg-shells are the result of irregularity of grit and shell-supply. The hen is a creature of regular habits. She must have her regular supply of each and every kind of material for food and egg-forming purposes. If cut short on one she can not complete her allotted work, and the result is a short egg-supply. When we neglect her every want she is not much worse off than when part is neglected. You can not make mortar or whitewash without all the necessary parts; if this rough mixture must be balanced what must be the demands for making the delicate eggs?

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We have been making incubators and brooders for so long a time that to most people seeing the name

"Prairie State"

is like meeting an old friend. Well, we are still doing business at the old stand, and merely ask you to remember the name and the place. It's the "**Prairie State**" that is used exclusively by the Department of Agriculture at Washington. It's the "**Prairie State**" that has taken 342 first premiums—more than all other makes of incubators combined. It's the "**Prairie State**" that is used on the largest and most successful poultry and duck farms in the entire world. It's the "**Prairie State**" that is made in the largest and most completely equipped, exclusive incubator and brooder factory in the world. It's the "**Prairie State**" that this year issues the most complete, comprehensive and artistic catalogue ever put out by any incubator company. 50 tinted plates; 4 original paintings, reproduced in colors, 700 original photographs. These are but a few of the good things it contains. We mail it free to every interested inquirer. Send for catalogue No 40.

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Brahmas at Our Shows.

That New England is the real home of the Brahma can not be denied. Should there be the slightest doubt of this in the minds of any, a close study of the following presentation will remove it, and prove that in all the world there is no other locality where so many good Brahmas are found.

A careful examination of show records gives us the facts below:

Entries at New York.	1899.	1900.	1901.
Light Brahma cocks . . .	7	16	8
Light Brahma hens . . .	11	21	12
Light Brahma cockerels . .	15	35	30
Light Brahma pullets . . .	13	33	28
Total open classes . . .	46	105	78
Exhibition-yards, 5 each .	11	14	14
Dark Brahmas, total, . . .	38	18	7
Total . . .	139	193	155
Total 3 years, 487.			

In Dark Brahmas, the total number in pens and open classes are all added together.

Entries at Boston.	1899.	1900.	1901.
Light Brahma cocks . . .	24	23	19
Light Brahma hens . . .	52	34	35
Light Brahma cockerels . .	64	53	53
Light Brahma pullets . . .	72	44	47
Total open classes . . .	212	154	154
Exhibition-yards, 5 each .	12	16	12
Dark Brahmas, open classes	50	42	35
Dark Brahmas, yards, 5 each	5	3	2
Total . . .	347	291	259
Total, 3 years, 897.			

All entries at Boston, with but few exceptions, came from New England; those of all prizes went to the New-England-bred birds.

At New York, in three years, there have been twenty-two exhibitors from east of the New York line and twenty-four from New York State and west. Out of these exhibitors for the past three years, those east of New York have won eight first and five second prizes, while those of New York and west have won seven first and ten second prizes. During these three years but one exhibitor that had won at Boston entered at New York, winning three out of four first prizes shown for. During this time quite a number of the awards credited to New York and west were won by the New-England-bred birds. Never, we believe, has a Light Brahma that was bred outside of New England won a prize at Boston.

There are hundreds of fanciers throughout New England who pride themselves on the high quality of their Brahmas who never send a bird to a show, while there are as many more who breed them for the keenest competition and come to the ring-side, as it were, to contend for supremacy. These are the backbone of the New England fancy; they are the membership of the New England Brahma Club; they are the men who guide and guard their future welfare, and to them the world must look for the greatest advancement and quality.

This wonderful contention for supremacy among the Light Brahma producers of the East has attracted to "Brahma Alley" at Boston and New York more attention than is given to any other one variety. While the White Wyandottes count in their following a larger number of entries, not even they have the same amount of close, keen, and, at times, hot contention displayed that is found among the Brahma following.

The application of all rules of law can be so construed as to fit any existing condition; it seems to be much the same in applying the Standard of Per-

fection to the Brahmas in our several shows. After the awards were placed in Boston in 1900 the accusation was laid against the winning pullet that it was Cochin in shape. Under the approval of the New England Brahma Club this claim was made emphatically. This year they had the exhibit and the selection of judges in their own hands, and we find second on cock-birds and first on cockerels placed on specimens that have more of the Cochin type in their make-up than had the pullets of 1900.

It is not our purpose to find fault with nor to condemn the position taken by the several judges on Brahmas, either at Boston or New York, but we do feel that the gentle comparison of their selections one with another may be of benefit to the future best interests of these classes, by bringing the discussions nearer together each year, and in this way give us a more even type of form, color, and finish among the winners.

When we compare the awards of last year at Boston and New York, we find that a cock-bird of admitted high quality wins first at Boston; this same cock-bird, when he comes to New York two weeks later, is superseded by one that was selected two weeks before at the Boston Show because he was considered to be the style of bird most preferred by the New York judge. Again, as to pullets: All the Boston winners were turned down at New York in favor of one that did not gain a place at Boston. The winner at New York was small in size, trim in form, beautiful in hackle-plumage, not clear white in body-plumage, and her wing-flights almost too weak in color for an old hen. Here we have a demonstration of the vast gap that divides the opinion of these two experts.

The winners of a year ago at New York, in cockerels, came from the New England breeders; they were of the admitted or preferred type of New England, and ranged very close to the Boston winners. At the show held in Boston just two weeks prior to the New York Show, the placing of awards on cockerels was closer in touch, one with the other, than in the other three classes.

The cock-bird selected at Boston this season was a true specimen of a Light Brahma. In all sections of form and color he was of model type (except that he was a little flat on breast and very short in wattle). This bird might well have been used as a sample for the selecting of all the winners of the year; but we find a cock-bird selected for the second place that was short on his legs and so closely coupled in back as to have a strong resemblance to the Cochin type. Both he and the first cockerel had the bend backwards of the legs at the hock-joint which gives the low, stooped appearance to the Cochin. Brahmas should stand straight and firm on their shanks, not bent back at the hock-joint; their legs should be set well apart.

The past season is admitted to have been a poor one for the growing of Brahmas. This is advanced as the reason for the quality of the young stock not being the equal of those shown last year. Be this as it may, the quality of the stock should not influence the result of their judging. It was said of the cockerel class at Boston, that No. 55 at the head of the row filled each and every requirement of the Standard as to shape. He stood strong and firm on a well-shaped pair of legs that were set

wide apart; his color and marking strong and clean cut; wings very good, but this cockerel was not of the type selected to win. He did not gain a position in the whole of the twenty-three awards made on cockerels.

Here we have presented the handling of the Standard by one of our most competent judges and successful breeders, the result proving how very possible it is for judge and exhibitors to divide on these important questions, and to do so honestly. Might not there be some plan devised to gather these several opinions into one that would meet the required solution of the question? This gives us much for consideration.

If these facts, as stated, were the grumblings of dissatisfied exhibitors, one would scarcely stop to listen to them; but when these expressions are the disinterested opinions of those who live far away from the show and who have nothing at stake, it indicates how divided we are locally in our opinions of quality as described in the Standard. For instance, cockerel No. 91, at Boston, a winner of the lowest grade ribbon, has been the subject of comment and praise by a very large following ever since the show. He was sold for the largest price paid for a Brahma for many years. Those who favored this specimen did not favor the winners, while those who stood for the winners did not select this one for a favorite. These facts stand as a living evidence of how true, honest breeders will differ in their opinions. When this is the case with those who have the whole week to study a class, why should we wonder that judges differ who seldom have longer than an hour or two to select the winners in a single class?

This same division of opinion ran throughout the whole display; the same among the females as the males. Judges and breeders from the West did not draw their conclusions to accord with the East; nor did the New England fanciers get any closer together on females than on males. These several opinions show the importance of having a better understanding and of getting closer together on the whole matter.

The Standard calls for white back on Brahmas, but tells us that a slight striping on saddle shall not disqualify. Unless some turn is taken on this question we shall have our Brahmas with saddle quite as dark as hackle, a condition that should not be encouraged. Simply because it is not a disqualification is no reason for its encouragement. Better stand for the clear white backs, even if we must lose a little of the clear, rich, black markings.

The real value of ribbons given out at any show depends largely upon the value thrown around them by the show management. We regret to say that considerable comment was made upon their too general use during the past winter. Of what value will the special white ribbons of the Boston Show be if they are as plentifully used in the future as they were last winter? Shall we conclude that this white special ribbon—the emblem of the best—at Boston shall become so common as to decorate seventh and eighth-prize specimens? Surely it is due to those who win the highest honors that they be protected in this by the management. If so many coops must be decorated as was the case in some of the classes, ribbons should be provided that have printed on them their purpose.

Another feature, of the greatest im-

portance, must have the attention of the management of our several large shows or else trouble and dissatisfaction must result from its continuance namely, the habit of exhibitors pressing about the judges while they are at work, and, in some cases, going so far as to help the judge handle the specimens and make suggestions to him while doing so. Usually this influences the judge against his remarks, but at the same time it is a most fruitful source of creating the cry "favoritism" should this unusually active exhibitor's birds win any prizes.

While we are in line with troubles as they exist, we will mention a fact or two that should have attention before injury results from its continuance; viz., the disposition to treat lightly our disqualifying clauses. Objecting to the use of any disqualifying clauses places the exhibitor in the wrong; again, specimens win that could not do so under the score-card if discounted for light or under-weight, and Bantams are allowed to win that have the appearance of over-weight. These facts should have more consideration, if we hope to keep our record up to the highest standing.

The Chicago Show.

We give herewith a half-tone group of the men who are managing the sixth annual Chicago Show. It includes the board of directors, the president, and secretary. While the secretary of a poultry association is the officer who most often comes in contact with the

public, and is, therefore, the one to whom much of the success or failure is credited, yet it is the executive board—which lays the plans, makes the rules, appoints judges, assistants, etc.—that is the real foundation and moving spirit of the enterprise. Upon it devolves much hard work and great responsibility.

The Chicago Show has steadily grown in size and importance. Its start was made in the little Cyclorama Building, which afforded plenty of room. Now the great Coliseum, the largest structure of its kind in America, is not large enough. Two hundred dollars, raised with great difficulty, was the estimated cost of the first show. Twelve thousand eight hundred and ninety-two dollars and thirty-six cents was paid out for premiums and other expenses for the last. Great has been this phenomenal growth, and every indication promises a greater advance in the future.

Shows and Associations.

The annual meeting and the election of officers of the Buff Orpington Club will be held at Madison Square Garden, New York, N. Y., on Jan. 16, 1902, at 4 o'clock p. m. F. W. Gaylor, secretary.

The second annual exhibition of the Dauphin Co. Poultry, Pigeon, and Pet Stock Association will be held at Harrisburg, Pa., Jan 21-25, 1902. Liberal premiums and valuable special prizes will be offered. For premium list address the secretary, John R. Gore, Middletown, Pa.

The Guernsey County Poultry Association will hold an exhibition at Cambridge, Ohio, Jan. 22-25, 1902. Following is the list of officers: Ross Moore, president; J. S. Burris, vice-president; J. E. Eaton, treasurer; J. C. Sarchet, secretary; Mack Sigler, assistant secretary; Arch E. Lofland, superintendent.

The Hoosier Poultry and Kennel Association hold their second annual exhibition at Logansport, Ind., Jan. 6-14, 1902. The secretary writes: "Chas. McClave, of New London, Ohio, will judge the poultry, and Al. G. Eberhart, of Cincinnati, Ohio, will judge the dogs, and it is but proper to say that these judges have been chosen because we know them to be capable and honest. We also have engaged Mr. John W. Mullinix, of Toledo, Ohio, as a special judge for the bantams, pigeons, and Belgian hares."

The American S. C. Brown Leghorn Club emerges from infancy this month with the vigor of youth, and will graduate at the Chicago Show during the week of January 20th as a full-fledged specialty club, fit to solicit the confidence and respect of breeders the world over. Preparations for the graduating exercises are completed, to which every member is expected along with a string of his best birds. Every breeder interested should identify himself with this club, and take a hand in pushing the interests of the popular Brownies. Send \$1.00 to the secretary for membership, and further particulars.—C. H. DAVIDSON, secretary, Morgan Park, Ills.



OFFICERS AND BOARD OF DIRECTORS OF THE CHICAGO SHOW.

Current Gossip.

Mr. Joseph B. Thomas, Jr., has to-day, without question, the grandest lot of Russian wolf hounds and Favorolles to be found. Both are odd and beautiful and reflect great credit on their enthusiastic owner.

Now or never is the time to toe-mark any fowls that have not already been marked. After they mingle with the whole lot and change their plumage you can not tell them to any certainty. Look up the marker we offer and see the good things that go with it.

Mr. D. A. Mount, of Jamesburg, N. J., so well known as a breeder of fine fowls, has done so much for the poultry interest of the East that the mere mention of his name creates confidence in all he has. Mr. Mount is one of the old reliables that can be depended upon.

The Hon. David A. Nichols has sold all his fowls for lack of room at Shelton to keep them. It is unfortunate to see so well-established a strain of fowls scattered where they may not be so well cared for as they have been. No one ever had better Black Cochins than he.

It is remarkable how our friend, James H. Corwith, of Water Mill, New York, succeeds in producing so many fine Buff Plymouth Rocks. Year after year he goes on doing better and better. He has the size, shape, and color on his stock, the three most valuable features.

Philander Williams, of Taunton, Mass., is in line stronger than ever this winter. He was superintendent of the Taunton Fair this fall and covered himself with glory. Such Brahmas and Cochins as he has now are seldom seen anywhere, and all his stock has been bred to quality for forty years.

The value of aluminum leg-bands is fast becoming known. These bands are so easy to handle and so very light in weight the fowls scarcely know they have them on. The marking of fowls has become so general that the question has great consideration and the verdict is largely in favor of the aluminum bands.

The success of our friend, Philander Williams, with his Dark Brahmas is wonderful. He has them better and better all the time. This year he has the best on earth, he thinks, and hopes to show them and win at New York and Boston. Best wishes to our old long-time friend. May his shadow never grow less.

"Well, I should smile," said we, as we came in sight of Fred Crangle's scoring Belgian hares, Borjoi hounds, and Faverolles at the late shows in Connecticut. If our domestic friend keeps on we shall expect to see him score a home-run from the Philadelphia Show with a pocket full of ribbons won by Valley Farm.

Belgian hares have settled into the position they should be well able to fill. Beauty and utility they say; we prefer the title exhibition and market hare. The Rohlsen Rabbitry, 659 Hirsh St., Chicago, has a superb lot of both qualities for your consideration. Many of their patrons are doing well with stock secured from them.

Mr. L. J. Bundy, of Buffalo, is just as enthusiastic over Barred Rocks as ever. No one enjoys better than he the pleasure of owning and showing some good ones that have the proper form and color. Some years ago Bundy started quite a number of the boys in good

Plymouth Rocks and they still have a good word for him.

True quality shall have its reward, and this is doubly true in the case of Riddell's Buff Wyandottes that are too fine in quality to lose against all comers. Buff Wyandottes of true shape and color are hard to find, but when you can find them with all these qualities, and in addition to this, pure and true line bred, they are the ones to tie to.

Every one knows of Woodward's Plymouth Rocks that are bred at Dunstable, Mass. It is a pleasure to note their success this fall at all places shown. Mr. Woodward is so pleasant to do business with that all who deal with him once come again. Kind treatment and good stock count in the long run.

Sadness has possessed itself of Johnstown, N. Y. Barney Mosher goes about looking for the lost cause, Blunck and Quilhot look sadly at Frank Randall, and the one and only Devendstedt is whistling that much-abused air, "Go Way Back and Sit Down," all on account of the conclusion reached not to hold a show this winter in Johnstown.

Mr. E. G. Toll, Jr., is the Master of Arts at raising high-class poultry and Jersey cattle; no one can do better than he. When seen at the ring-side or in the poultry-building when judging is being done, he is most ready in his quiet way to say, "Well done," when an award has been well placed, and as readily does he frown when disappointed.

Manager F. W. Taylor, in charge of Sunnyfield Poultry Yards, Middletown, R. I., reports great success as the result of the past season's work. He will be on hand with a string of winners this winter that will make some one jump to catch him; but few have the quality to work with that he has, and all of the varieties kept at Sunnyfield are breadwinners of the most popular kind.

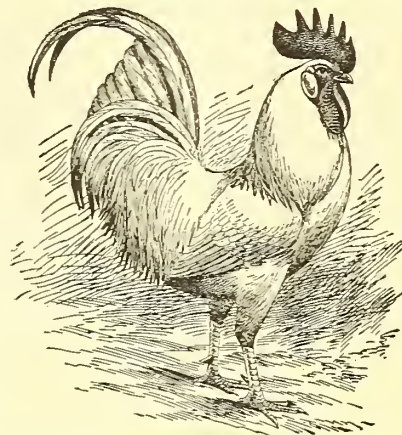
Powers' S. C. White Leghorns are well known all through New England as the sturdy, vigorous kind that will stand up to all kinds of weather and produce lots of eggs, and in addition to this they go to Boston and win the blue ribbons, the real test of quality. Mr. Powers writes that he has done well with them the past season and will be glad to have a chance to send his circular to all who will drop a line to Sterling, Mass., and ask for one.

Mr. E. B. Thompson, of Amenia, has invited Mr. McGrew, of New York, to go with him on a trip to the Holy Land. Ed. thinks of buying the Pyramids to bring back as a monument to his Ringlets. It may be that these two enterprising individuals may bring home a Midway show for the St. Louis Exposition. If they do it is hoped that they will bring better than was at Buffalo during poultry week. If it had not been for Drevenstedt's Bearded Lady "Faverolle," by name, fun would have been at a discount.

In the New York market we saw a short time since about one hundred crates of live Pekin Ducks. Their immense size and grand appearance attracted our attention and we asked the vender where they came from, and he told us that he was up at Speonk, L. I., N. Y., and bought them of Mr. A. J. Hallock. We asked if Hallock was selling out. "Oh, no," said he, "these are what he called his culls. It

would be worth your while," said he, "to go up and see his best. They beat the world."

Prize-Winning Leghorns.



My birds were bred from a pen of birds that I imported myself—both male and females. Eggs for setting from this stock: 1 setting, \$2; 2 settings, \$3.50; 3 settings, \$5; incubator eggs from good, old stock, mated to some of these best young males. All boxes are made on purpose for me, and out of more than 500 settings so'd last year, only 2 reported cracked. All orders for both stock and eggs promptly filled, and all inquiries cheerfully answered. Circular free.

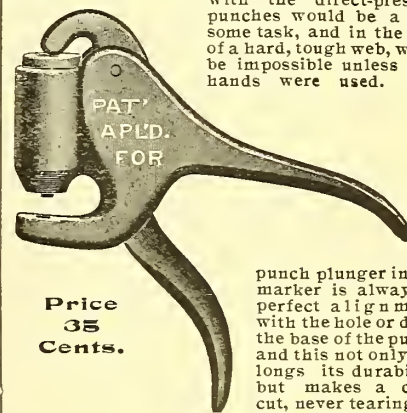
**F. G. POWERS,
STERLING, MASS.**

Mark Your Birds!

This Spring Lever Poultry Punch is the best device made for marking your birds. Every Poultryman should have one.

**We will give it
FREE
To Subscribers.**

The leverage provided in this device for marking poultry enables one to punch with perfect ease any kind or number of webs, and to do this with the direct-pressure punches would be a tiresome task, and in the case of a hard, tough web, would be impossible unless both hands were used. The



**Price
35
Cents.**

punch plunger in this marker is always in perfect alignment with the hole or die at the base of the punch, and this not only prolongs its durability, but makes a clean cut, never tearing the web. They are well

made, handsomely finished, and carefully tested.

To every one sending us 50 cents, the regular price, for one year's subscription to THE FEATHER, and mentions it at the time of sending in their subscription, we will give **Absolutely Free** one of these Spring Lever Poultry Punches. Don't send stamps.

Geo. E. Howard & Co.,
305 Tenth Street N. W.,
Washington, D. C.

THE BUSINESS WORLD

As Viewed from the Columns of
The Feather.

A FINE BOOK.

Mr. B. H. Greider, the well-known poultryman, of Florin, Pa., a regular advertiser with us, is breeding fifty varieties of poultry to a very high standard of excellence. Mr. Greider's catalogue for the year 1902 is now ready for distribution. It is one of the best books of its kind, and is beautifully illustrated in colors. It describes all of his varieties in prize-winning poultry, and gives a great deal of interesting and valuable information on poultry topics. It is worth a great deal more than the ten cents in silver or stamps asked for it.

Address B. H. Greider, Florin, Pa., and mention *THE FEATHER*.

RECORD-CARDS FREE.

The Vermont Belgian Hare Co., of Lyndonville, Vermont, are supplying all rabbit and hare breeders with hutch record-cards free. All breeders should take advantage of this liberal offer. See their ad and send a stamp for one.

A GOOD SHOWING.

Mr. Geo. E. Hayes, Prattsburg, N. Y., breeder of Black Minorcas, White Wyandottes, and Barred Plymouth Rocks, writes us as follows: "At single-entry show held at Bath, Steuben Co., N. Y., 2,000 entries, in the White Wyandottes, a strong class, I won first cock, first hen, first cockerel, on four entries. I think this quite a good showing, because there were some New York State Fair first-prize winners there. The famous Dutton strain. The first cockerel and first pullet are now owned by H. B. Longwell, Hammondsport, N. Y., one of your advertisers. I also made seven entries at our recent fair and won seven first prizes.

TRANSFER OF STOCK.

Washington, D. C., Nov. 29, 1901.

This is to certify that E. L. Barclay, proprietor of the Ideal Rabbitry, of this city, has purchased the good-will, Belgian Hares, hutches, cuts, and everything in the way of property pertaining to the North American Belgian Hare Company.

(Signed) JAS. E. PAYNE, President.

A CHOLERA REMEDY.

J. T. Dew & Son, pharmacists, Sumnerfield, Ohio, are the manufacturers of Dew's Chicken Cholera Remedy, which is the result of years of study and experiment to find a remedy for this great scourge of the poultry industry. They guarantee this remedy to kill the cholera germs if directions are followed. Write them for full information and circular.

POULTRY CORRESPONDENCE SCHOOL.

We are in receipt of the prospectus of the Crescent Farm Correspondence School of Utility and Fancy Poultry. Its aim is to impart a thorough and practical knowledge of the poultry business, without requiring the student to be away from home any length of time; and being in such close connection with a large poultry farm in successful operation, it is hoped to make it much more practical than it otherwise could be. An employment agency has been opened in connection with the school where competent and reliable poultrymen, not grad-

uates of the school can secure positions as managers. For prospectus and further information address Henry M. Ladd, Crescent Farm Office, Cleveland, Ohio.

BEST BLACK MINORCAS.

We wish to call special attention to the advertisement of Mrs. George E. Monroe, of Dryden, N. Y., which will be found in our classified columns. Mrs. Monroe is one of the best known and most successful breeders of Single Comb Black Minorcas in the country, and is a member and officer of the American Black Minorca Club. Her birds have won many prizes at all the leading shows, are farm-raised and line-bred. She guarantees satisfaction. Write for her catalogue.

GOOD RESULTS.

Editor *The Feather*:

Please change my advertisement in *THE FEATHER* as I have sold all of my breeders that I can spare. I was compelled to move to Anacostia, D. C. (418 Monroe Street), so that I can mate up more birds to fill my egg orders for the coming season. I will have three breeding-yards of S. C. Black Minorcas and they are the best I have ever owned. They are all over standard weight, and for size, shape, weight, plumage, etc., far surpass anything I have ever owned this year. I have purchased from Geo. H. Northup one cockerel, one cock, and three yearling hens; one of them is from "Toro," the greatest *Minorca of them all*, and now I am prepared to mate up the three grandest breeding-yards of Minorcas I have ever owned, and they are second to none, and with them I am sure of doing a larger business the coming season than I did the past, which was the best I ever did. From my advertisement in *THE FEATHER* I sold \$46 worth of eggs for hatching and \$37 worth of stock from April 1 to August 15, 1901, and out of that business I had only one to kick, and I satisfied that fellow, and he was a "bird"; but see what a couple of my customers have to say about the eggs and stock sent out during 1901, not what was sold years ago:

Albany, N. Y., May 6, 1901.

Mr. E. D. Crouch:

Dear Sir: I wish to inform you that I had a very successful hatch from your eggs. From the thirty-six eggs I received from you I received twenty-seven chicks, and on opening the balance found them fertile with the exception of three, and consider myself very fortunate.

Yours truly,

Mrs. JOHN DEBLES.

Pekin, Md., July 5, 1901.

Mr. E. D. Crouch:

Dear Sir: The cock you shipped to me sometime ago arrived all right and is a very fine one, indeed. I expect to improve my stock very much with him. He is just as you described him to be, and it gives me much pleasure to say that I could not have bought one from a fairer dealer than you, and I shall always find it a pleasure to recommend you. Very respectfully,

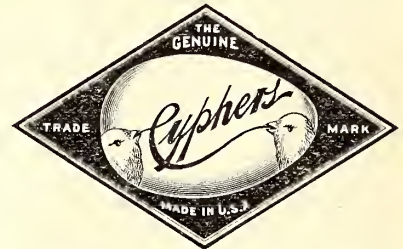
J. W. DUCKWORTH.

CYPHERS' CATALOGUE FOR 1902.

The new and complete catalogue of the Cyphers Incubator Company for 1902 will be ready for mailing about the 15th of January. This book will consist of 196 pages, 8x12 inches in size, with a handsome embossed cover with gold lettering, and will contain color-plate reproductions of the full line of the non-moisture, self-ventilating Cy-

phers Incubators. It will also contain photographic illustrations of a large number of America's best known and most successful duck, broiler, egg, and specialty plants. This new catalogue weighs fully one pound, and will be sent free to any address in any country for 10 cents in stamps or silver to pay cost of delivery.

A feature of this new catalogue is the department of foreign testimonials, telling of the uniformly good work the Cyphers patent-diaphragm, non-moisture, self-ventilating incubators are doing "the world around." The sun now never sets on "the Cyphers at work," and the department referred to contains numerous reports from persons dwelling in foreign lands who are using the Cyphers Incubator with gratifying success.



So great has become the foreign demand for these American-made incubators that the Cyphers Company has found it advisable to take out a trademark, which has been registered in every country where a demand for incubators exists. This has been done to protect the Company's trade and friends against "pirated" imitations, so that foreign poultrymen may be sure they are buying "the genuine Cyphers made in U. S. A." Herewith is shown an imprint of the new Cyphers trademark, and hereafter this trade-mark will appear in gold and colors on the front of every Cyphers Incubator manufactured by the Cyphers Incubator Company in their new and greatly enlarged factory at Buffalo, N. Y. Note their full-page advertisement, page 134, this paper.

All persons who are interested in the development of the poultry business and the improvement of poultry appliances should send for a new Cyphers

Lee's Egg Maker



supplies meat food, keeps fowls healthy, vigorous and profitable, makes them lay when nothing else will. No meal or cheap filler used; granulated blood (deodorized) is its base, united with spices, salts, herbs and roots. If not sold in your town don't take cheap substitutes but send 25c for

A Big 42 Oz. Package

or \$2 for a 25 lb. pail direct to the makers.

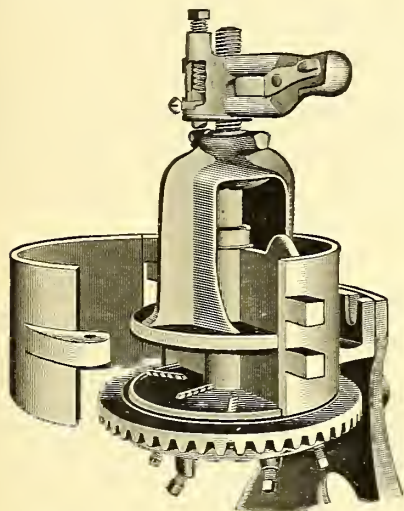
GEO. H. LEE CO., Omaha, Neb.
Or 8 Park Place, New York.

"Used Lee's Egg Maker this year. First hatch of Barred Plymouth Rocks came off Jan. 13th, got eight chicks out of ten eggs. First pullet commenced laying May 1st, the others between May 15th and 20th. This beats all records I ever heard of. Hatched 200 chicks this season and lost none; used the Egg Maker right along."
OTTO WEISS, Wichita, Kansas.

catalogue. Ask for book No. 6, and address nearest office.

Cyphers Incubator Company,
Buffalo, N. Y., corner Court and Wilkeson Streets.
Chicago, Ill., 325 Dearborn Street.
Boston, Mass., 34 Merchants Row.
New York, N. Y., 8 Park Place.

SYSTEM OF THE NEW MANN'S GREEN
BONE AND VEGETABLE CUTTER.



The engraving above shows very clearly the details of the construction of mode of operation of the 1902 Mann's Green Bone and Vegetable Cutter. The whole mechanism of the "New Mann's" is here shown, except the gearing for the application of power. The essen-

tial parts of this cutter are the knives and cutter-plate, the cylinder, the follower, the feed-handle, the spiral spring, the plunger, and the feed-screw. The principle of this new model cutter may be shown most simply, perhaps, by following in detail the process of feeding.

The bones are dropped into the large open cylinder on one or both sides of the partition as shown above. They are now in the bottom of the cylinder resting on the small knives, three of which are seen here. The large flat bottom of the follower is allowed to drop of its own weight on the bones. All the operator has to do now is to apply the mechanical power. But while the bones are being cut the upper part of the cutter is busy all the time. And here is the new and peculiar feature of the "New Mann's."

The mechanism at the top of the illustration contains the secret of the "New Mann's." The feed-handle to the right is hardly true to its name, as it requires no handling by the operator. It is fastened to the feed-screw in the center by a separable nut. At the other side of the feed-screw is a small plunger, above this a small spiral spring, and above this a small screw, the head of which is the highest point in the illustration. This plunger is actuated by the small spiral spring. The bottom of the plunger, held down by this spring, engages the lugs on either side of the follower in the process of turning. The lug engaged at any instant of time prevents the handle from turning, and causes it to follow the thread of the screw downward, bringing the follower with even pressure against the bone. When the knives bite into the hard piece of bone, the resistance of the bone

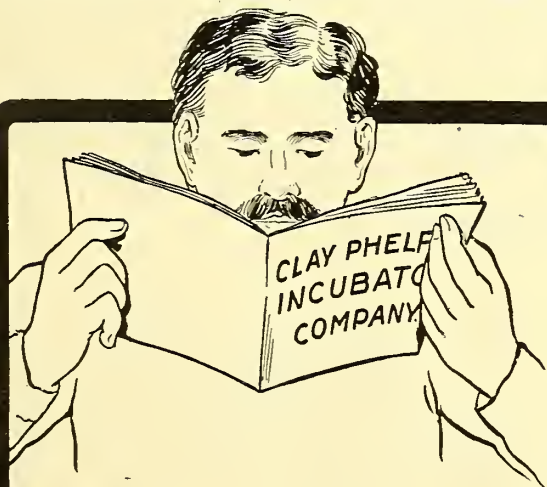
being, of course, greater than the pressure of the spiral spring on the small plunger, causes the spring to contract a little, enough to make the plunger slide over the lug, allowing the feed-handle to revolve with the screw.

The handle continues to revolve until the resistance of the bone to the knives has diminished to a point less than the pressure of the spiral spring on the plunger. The governor of the spiral spring may be set so as to make the spring more or less tense, as may be desired. This is done by turning the head of the small screw above it. The more tense the screw, the faster will the knives engage the bone, and the harder, naturally, it will turn. It can be set instantly to suit the strength of man, woman, or child. The operator will soon learn just how it best suits him. The same exertion will cut hard or soft bones because the hard bones are not fed so fast, their resistance being greater against the automatic governor.

It can readily be seen that this mechanism fills perfectly all the requirements of an automatic and self-governing machine.

The list of prizes already won by the F. W. Mann Company was recently added to at the Pan-American Exposition at Buffalo, where the highest award was given to the "New Mann's."

The F. W. Mann Company is this year sending out its cutters on trial, so confident is the company of the special merits of the "New Mann's." The 1902 catalogue, giving full description of the cutter, prices of all sizes of cutters, and the plan of sale is sent free on request. It is beautifully illustrated and printed in two colors throughout.



The Reading Man

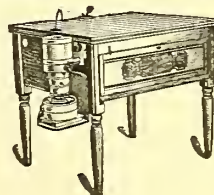
is the man who makes the most money now-a-days. He reads up on what he wants, and then goes after it. Do you read?

Would you like to read our poultry book, "All Right"? It tells a lot of practical things about poultry, and how to care for and raise it. It tells about our "All Right" Incubators and brooders, and how we ship them anywhere on

40 DAYS FREE TRIAL,

that they may be tested before bought. We send the book free upon request.

Clay Phelps Incubator Co.,
Station 79, Cincinnati, Ohio.



THE FEATHER,

Washington, D. C.

Published the 1st of each Month by
GEO. E. HOWARD & CO.

Single Copies 5 cents.
Subscription 50 cents a Year in Advance.
Foreign Subscriptions, 75c a year in Advance.
Subscriptions in the District of Columbia, 75 Cents a Year in Advance.

ADVERTISING RATES.

Advertising rates per insertion 15 cents a line, agate measure, 14 lines to an inch. Discount card on application.

GEORGE E. HOWARD, Editor.

SUBSCRIBERS. When a subscriber finds this item marked, he will understand that his subscription has expired, and that he should renew promptly before the next issue is published.

ADVERTISERS Must have copy in for change of advertisement not later than the 5th of the month. Copy for new ads must be received by the 15th of the month to insure insertion.

TO AGENTS. We offer the most liberal terms to agents, and our plans and arrangements are so liberal this season that there will be money in acting as a representative of THE FEATHER. We want new agents in every neighborhood in which we are not already represented. It will pay you to write us at once and get our terms. Good profits are to be made from the sale of our publications, and it will pay you well to investigate. Write us for full particulars and free outfit.

Remittances should be made by postal money order, registered letter, bank draft, or express money order.

All remittances should be made payable to
GEO. E. HOWARD & CO.,
305 10th Street N. W., Washington, D. C.

Entered at the Post Office at Washington, D. C., as second-class matter.

JANUARY, 1902.

The FEATHER wishes you,
one and all,
A very Happy New Year.

Good Advice. EDITOR ROBINSON, in *Farm-Poultry* for December 15, is evidently dumfounded for want of further talk on pictures and bulletins, if we are any judge of the editorial ability of that esteemed contemporary. His policy is of the toy-balloon kind; if you puncture it with a pin the whole thing collapses. We grant him the privilege of not liking the paper we publish, the pictures we draw, and the many other things we do in our business, but it certainly is tiresome to see *the editor* jumping this way and that with affairs of which he is entirely ignorant, and allowing his ideas to run entirely astray with him. It is about time for him to attend to the things which directly concern him, and leave other peoples' affairs alone. He will have his hands full to do that properly. The past history of his publication should tell him how uncertain the things of this life are,—and, in the language of the present day he should "go 'way back and sit down."

Popular Articles. We wish to thank our patrons for their appreciation of our efforts with the article on French breeds as published in the October number of THE FEATHER. Many very complimentary letters have been received in regard to the article, and we are glad to have assisted the breeders of these fowls in the manner we did. It

has always been our purpose to give the true facts in every case, and when any of our readers differ from us they are privileged to present their views in these columns. It is no easy task for an individual to do the whole thing single-handed, and for this reason THE FEATHER has always solicited the co-operation of its friends and patrons. In this number will be found an elaborate article on the Game fowl, and we trust it will meet with universal satisfaction. That the Game is an important member of poultrydom is evidenced by the large number of breeders who have them in their yards, as well as the recruits who are taking them up for the practical as well as for the fancy. For exhibition purposes the Standard Game is the equal of any fowl, and the breeding of them to the true lines of the Standard is an art any breeder should feel proud of. Those interested in these fowls make no mistake in breeding them.

A Chance for All. The busy season is with us, and we are glad to note the enthusiasm of the breeders generally for the trade that is to come. The prosperous times are seen on all sides, and there is no exception to the poultry business. Indeed, this business was never in better shape than it is to-day, and the outlook is extremely bright for a brisk trade in stock and eggs. Those breeders hoping to get in on the ground-floor should not delay laying their plans for their share of the business. No better way is to be had than the columns of THE FEATHER. Advertisers who have tried our medium speak well of their excellent results, and we are satisfied others who are not advertisers at present would be of the same opinion after trying same. THE FEATHER is reaching out after a choice list of readers, those who are directly interested in the business and have every reason to patronize those who have stock, eggs, and appliances for sale. The large list of THE FEATHER is not of the mushroom order, but of the staying kind, who are directly interested in the things which concern them. The rate is low for the circulation, and all having anything for sale should apply for space and rates immediately.

The Show Season. There are great prospects in store for exhibitors this season at the shows. The classifications are liberal and specials are numerous. These inducements should warrant large entries, and even the most timid should be tempted to climb after the plums. Business naturally follows in the wake of prize-winning strains; exhibitors have everything to win and very little to lose at shows. As a rule it is only the winners that are spoken about, while the losers—well they are good for breeders at any rate. Breeders who do not risk the chances of the show-room stand in their own light and make an up-hill job of the chicken business.

The Homing Pigeon. Our new book, "The Homing Pigeon," is meeting with a very pronounced success, and those interested in these winged messengers should not be without a copy of this already popular book. The book is devoted to the mating, breeding, training, and flying of Homers, and has thirty-eight illustrations. The text is compiled from articles by Messrs. PHILIP ARNOLD, J. D. ABEL, H. MARI-

Fifty Pens of this Season's Breeding Stock For Sale.

In quantities to suit purchasers. Hundreds of cockerels and pullets after Sept. 15; farm grown, with all wants supplied to produce the finest possible stock. Special prices on trios and breeding-pens; and **REMEMBER**, my stock is line-bred since 1883 for **RESULTS**—32-page descriptive catalogue free. Winners wherever shown—New York, Boston, Chicago, Hagerstown, Cincinnati, Providence, Worcester, Hartford, New Haven, etc.

S. C. White Leghorns, S. C. Black Minorcas, Barred Rocks, White Rocks,
White Wyandottes, Light Brahmas.

ELM POULTRY YARDS, Hartford, Conn.

STATE AGENT FOR THE STAR INCUBATORS.

ON, W. W. BRETHERTON, T. FRED GOLDMAN, J. T. EIKER, J. G. HARVEY, and other writers on Homing Pigeon topics contributing to the columns of THE FEATHER. The book is 16mo., 124 pages, well printed and substantially bound. The price, postpaid, is 25 cents, or given free with THE FEATHER, one year, for 50 cents.



Below, as usual, we publish a few complimentary notices recently received. These tokens from our friends and patrons are appreciated very much by us, and the hope is entertained that each subsequent number of THE FEATHER will merit a continuance of this liberal display of compliments:

"I think your paper is par excellence." FRANK W. ULRICH, Manheim, Pa.

"Please renew my subscription. Can't do without THE FEATHER. Every one that comes is better." S. H. JACKSON, Germantown, Pa.

"I enclose subscription to THE FEATHER. I think your paper is just grand. I don't want to miss one number." RICHARD WALSH, Lonacoming, Md.

"I have received THE FEATHER for October and November and think it is a very handsomely gotten up journal and feel well pleased." J. J. KUNKEL, Newark, N. J.

"If you will allow a compliment, I will say THE FEATHER is the best poultry paper I have ever read, and I expect to be a continuous subscriber." J. R. FRAVEL, Lofton, Va.

"I find THE FEATHER the best paper on poultry I ever read. It is a beauty. Such fine cuts of poultry! I would not be without it." CAPT. W. A. HALL, Marietta, Ohio.

"I write to acknowledge receipt of the Christmas number of your highly appreciated magazine. I enjoy reading it very much." THEODORE BARNES, 2433 32d St., Washington, D. C.

"I have received the September and October copies of THE FEATHER which I subscribed for. I wish to say it is the best poultry paper I ever read, and I will at once subscribe for a year. I saw your 'Club of Four' offer in its pages, and I at once set out in quest of three more new subscribers, which I have landed. * * * My father and I have a poultry-yard at home in which I take much interest." A. H. BARBER, West Kingston, R. I.

"You are to be congratulated upon the Christmas cover of THE FEATHER, which is superb. Will ——— dream again? If he does it will certainly not be the night-mare spoken of in October issue, but a vision of holly and artistic arrangement of your cover which should make him feel that there is 'Peace on earth, goodwill towards men.' THE FEATHER has done more for me in disposing of surplus stock than any other paper, and as an advertising medium I do not think you can be beaten." HUTCHINSON SOUTHGATE, Good Ground, N. Y.

A Complete OUTFIT

AT GREATLY REDUCED PRICES.

A Grand Chance to Begin the Poultry Business.

In order to introduce more fully our Incubators and Brooders, we propose making a short-time offer of a perfect, self-regulating, and guaranteed 60-egg Incubator, and a complete Outdoor Brooder

FOR ONLY \$10.

This offer expires Feb. 15, 1902, and no orders will be filled at this low price after this date. Orders should be sent in early, and all orders will be filled in rotation.

These are the same machines that our customers speak so highly about, and there is no disputing the fact but that they are the equal of any hatchers on the market to day. Remember, we guarantee satisfaction in every particular, so you will make no mistake in buying this outfit.

We have in stock, ready for immediate shipment, all sizes of the Star Incubators and Brooders.

Poultrymen will do well in purchasing their supplies from us. Our line is complete and the best in the market. Send for a copy of our Blue Book. Make all remittances payable to

**SOUTHERN POULTRY
SUPPLY CO.,**

429 11th Street N. W.,

Washington, D. C.

Classified Advertisements

Fully prepaid advertisements of twenty-five words or less inserted under this heading at the following rates:

One time.....	\$.50
Three times.....	1.00
Six times.....	2.00
One year.....	3.50

READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 2 cents each for one insertion, or 1½ cent each for each insertion when run three times or more. Initials and figures count as single words.

PLYMOUTH ROCKS

"PARALLEL-BAR" ROCKS. Eggs, \$2 per 13; \$8 per 100. Gardner, Thompson, Bradley, and Moutank stock. Illustrated circular. H. T. BROWN, Box 471 B, White Plains, N. Y.

BUFF PLY. ROCKS.—Eggs, \$2 per setting, from the best pen in the South. My prize-winning hens and pullets at Washington, Hamilton, Rockville, and Laurel, mated with a grand cockerel purchased from J. D. Wilson. JOHN H. JANNEY, Brighton, Md.

EXHIBITION BARRED ROCKS. Stock direct from Thompson, Miles, and Gardner. Eggs from my prize-winners, \$2 per 13. E. B. LEEK, Amagansett, L. I., N. Y.

AT ELMIRA, Dec. 1899, and Nov. 1900, on Barred Rocks we won 8 firsts, 7 seconds, and 5 thirds. Choice breeding stock at \$2 up. Eggs, \$2 per setting. KRAFT BROS., Box 536, Hornellsville, N. Y.

BARRED PLYMOUTH ROCKS.—The kind everybody wants, large, vigorous and handsomely barred, yellow legs and grand shape. Hens and pullets that are sure to please, \$1.50 each. Big, vigorous, clear barred cockerels \$3.00 each. WM. H. CYPHERS, Crystal Farm, Washington, N. J.

BARRED AND WHITE PLY. ROCKS from the best eastern strains. Some extra-fine breeding cockerels for sale at \$2 and \$3 each. We guarantee satisfaction. BRIGGS BROS., Box 75, Centerville, R. I.

BARRED PLYMOUTH ROCKS Exclusively for 12 years. Great winter layers. Proper shape, size, and color. Old and young stock at fair prices. Satisfaction guaranteed. F. S. WEINHOLD, Denver, Pa.

EXHIBITION BARRED PLY. ROCKS. 200 show and fancy breeders for sale. My pullets are from a line that has won more prizes at New York in the last 7 years than all others combined. My cockerels for good size, shape, narrow blue bars, bay eyes, and yellow points can't be beat in America. If you want show birds and fancy breeders one-half cheaper than you can get them elsewhere, write me to-day. S. L. HETRICK, Punxsatawney, Pa.

STOP, look, and listen to what I say! I breed good Barred Rock cockerels and sell them reasonably. WM. B. WISLER, Pine Iron Works, Pa.

BARRED ROCK EGGS from the prize-winning pens of Leffel and Gibson for sale; also Single Comb Brown Leghorn eggs. Write me for prices. E. P. FRALEY, Herdershot, O.

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WHITE HOLLAND TURKEYS, bred from the winners at Madison Square Garden, A fine lot of yearling birds for sale; also hundreds of young birds that have the large bone you need to improve your flock, some choice exhibition birds including the 2d old tom, 1st and 3d-prize young toms at Madison Square Garden, 1901. **A. J. KREUTTER**, Fayette, N. Y.

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EDW. OYSTER, Washingtonville, Pa. Bronze Turkeys, hens 20 to 22½ lbs. bred to Wolf (heavy-weight) toms the past two years. One three-year-old tom cheap.

NARRAGANSETT TURKEYS are unequalled for size, tameness, and color. America's best and purest. Four yearling toms, great breeders. Flocks fine. **W. R. TUCKER**, Cambridge Springs, Pa.

DOGS

BEAGLES.—40 puppies from pedigree stock and from hunters. Grand in type, color, and size, plenty fit to show and win. "DEBONAIR," Gloversville, N. Y.

BEAGLES FOR SALE. Three bitches, one dog. Whelped Dec. 25. Bitches, \$8; dogs, \$10. **DURR & DECKER**, Wanaque, N. J.

THOROUGHBRED SCOTCH COLLIES.—25 male and female puppies. Males, from \$3 to \$5; females, from \$2.50 to \$4 each. Satisfaction guaranteed. **JOHN Z. FAUST**, Mercersburg, Pa.

POINTER PUPS, extra fine, \$5 each; also White Plymouth Rock cockerels, \$2 and \$3 each; all pure, choice stock. Will exchange for Homers. Satisfaction guaranteed. **SPRINGER**, 239 Fayette, Bridgeton, N. J.

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100 FANTAILS for sale. Blacks and Whites, breeders and show birds in lots to suit, imported stock, no better in America. Prices reasonable. **E. A. HOLBROOK**, Winchester, Mass.

FOR SALE CHEAP. Fifty old breeding Homers, Tumblers, Jacks, Pouters, Magpies, in all colors; also young birds of same varieties. All birds guaranteed. **LARRY F. GOLDY**, East Third St., Williamsport, Pa.

FOR SALE.—Pouters in Red, Yellow, Blue and White; White Fans, White Dragons, Parlor Tumblers in Yellow, Black, and Dun. Address, **M. WOELFLE**, Silver Creek, N. Y.

PERFORMING TUMBLERS.—Long-muffed solids and saddles, cleaned-legged solids and baldheads. Oriental rollers and parlors. Description, with stamp. **CHAS. F. CHAMBERLAIN**, 1014 Bartlett St., Milwaukee, Wis.

WANTED.—Old, strong, common pigeons in large and small lots. If you want birds for squab breeding, write for prices. **H. C. SNOOK**, Hagerstown, Md.

FOR SALE.—12 pairs choice Runt-Homer breeders, 15 Runt-Homer cocks, 75c. to \$1 each, 28 and 30-inch birds, 6 Runt cocks \$1.25 each. 2 White, 2 Colored Duchess cocks 75c. each. Address, **C. R. BUTTERFOSS**, Frenchtown, N. J.

600 FANCY PIGEONS.—75 varieties, all colors and sexes. Pouters 19 to 20 inches, \$3 per pair, and 100 other bargains. Buy, sell or trade. Send stamp. **SOMERSET PIGEON LOFTS**, Somerset, Mass.

HIGH-CLASS PIGEONS FOR SALE. White Fantails and Jacobins at \$1.50 per pair, to make room. All fine birds. **A. P. MOSES**, Malone, Franklin Co., N. Y.

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WHITE FANTAILS. First-class birds for sale, \$3 to \$5 per pair. Won 1st at Hartford on hen, eleven in class. **PHILIP MONTGOMERY**, Hartford, Conn.

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HOMING PIGEONS.—I have a number of fine cocks in Blue and Black Chequer and several pairs of mated birds (excellent breeders) that I will dispose of at reasonable prices. The above birds are pure-blooded Homers, and bred from reliable stock. Also a limited number of youngsters bred from the same strain. **G. R. BAYLE**, 1643 Race St., Philadelphia, Pa.

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COUNTY LINE POULTRY FARM breeds prize-winning Buff, Barred, and White Rocks, Light Brahmas, Buff and Brown Leghorns, Buff Cochins Bantams, Rouen Ducks Toulouse Geese, and Mammoth Bronze Turkeys. Winners at Washington, Rochester, Hamburg, Fredonia, and Elmira are in my this-year's breeding-yards. New catalogue for stamp. Yards situated 40 miles west of Rochester, N. Y. on R. W. & O. R. R. Address, **A. G. BARLOW**, Barkers, N. Y. Please mention The Feather.

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WANTED.—Consignments of live poultry. Your surplus stock disposed of at good prices without interfering with your custom trade. Prompt, satisfactory returns; references, market reports, &c., furnished. **GIBBS & BRO.**, Commission Merchants and Wholesale Poultry Dealers, 308 N. Front St., Philadelphia, Pa.

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SOME OF MY BARGAINS: 9 S. C. Buff Leghorns, \$10; 6 S. C. Black Minorcas, \$8; 8 S. C. White Leghorns, \$8; 15 S. C. Brown Leghorns, \$15; 10 B. Rocks, \$15; 3 Laced Wyandottes, \$3. **J. M. CASE**, Stony Point, N. Y.

CLARK BEHAM, Oakland, Armstrong Co., Pa., breeder of S. C. B. Leghorns, S. C. W. Leghorns, Black Minorcas, B. P. Rocks, B. R. Games, and Light Brahmas. I have 600 finely selected birds that will win. Can furnish pairs, trios, or breeding-pens at reasonable prices. Write me your wants, or come and see me. Satisfaction guaranteed.

12 FIRST-CLASS YEARLING WHITE Wyandotte hens (Wild Rose strain). Good breeders for 1902, \$10 for the lot. E. COOKE, Andover, Conn.

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ENGLISH PHEASANTS, White Cochins Bantams and White Crested Black Polish. Stock good as obtainable anywhere. Few choice birds to spare. Prices right. CHAS. F. CHAMBERLAIN, 1014 Bartlett St., Milwaukee, Wis.

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FOR SALE CHEAP.—White and Silver Laced Wyandottes, Light Brahmas, Barred Plymouth Rocks, White and Cornish Indian Games, Pekin Ducks, White Cochins and Black Breasted Red Bantams. Tumblers, Homers, and Turbit Pigeons. GERBIG & MILLER, Chambersburg, Pa.

FOR SALE.—Buff and Barred Rocks, S. C. Black Minorcas, and Buff Cochins Bantams. Satisfaction guaranteed. Write for prices. C. C. ELDRIDGE, Honeye, N. Y.

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THE ONLY "BUFF MINORCAS" in the U. S. We defy a duplicate of this handsome breed in the U. S. this year. Imported from England; finest of all layers; everybody wants them; also 60 others varieties of chickens. Also Pigeons, Pekin Ducks, and Belgian Hares. Eggs of the following, now ready for delivery, all thoroughbred stock: "Buff Minorca" (sole owner), Buff Cochins, Buff Rock, Buff Leghorn, S. C. White Leghorn, White Wyandotte, Barred Rock, and Rhode Island Red. Send orders early. Catalogue free. BUFF POULTRY FARM, R. D. No. 1, Norristown, Pa. Address all orders and Communications to—O. E. STRAUSSER, Prop., 3100 Berks St., Phila., Pa.

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Consider the prices quoted below, and if you intend to buy some, or renew your supply, let me send you free samples of my work. The best guaranteed; illustrated with the finest thoroughbred cuts.

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Upon receipt of this Coupon and One Dollar in cash, together with four names, we will send *THE FEATHER* to each of the four names for one full year. This rate is just one-half the regular subscription price to *THE FEATHER*, and so liberal an inducement might never be given again. If you are already a subscriber, get three of your friends to subscribe with you at twenty-five cents each, and we will extend your subscription one year from date of expiration of old subscription. Do not send stamps. Make all remittances payable to

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46 Firsts, 44 Seconds, 38 Minor Prizes, and 11 Specials, in 1900 and 1901, at Hagerstown, Rockville, Hamilton, Va., and York, Pa.
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Dear Sirs: Having used your Robicure for some time and receiving such good results from same, I deem it a duty to recommend it to all lovers of the Belgian Hares, for I have found it to be an excellent tonic, and have cured several cases of SNUFFLES, and would advise any and all who have hares to give it a thorough trial and be convinced of its merits.

Very sincerely,

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Are sold under a positive Guarantee, and are worth double the sum asked for them. 100-chick size only \$5.00; 200-chick size only \$10.00; Crosier's Lice Paint, 5 lbs. \$1.00; Crosier's 20th Century Lice Powder only 10cts. lb., guaranteed first-class; Climax Leg-bands, 50 for 50 cts., or 90 cts. per 100; Crushed Oyster-shells 50 cts. per 100 lbs. or \$8.00 per ton. Other poultry supplies very low priced. Write us to-day, enclosing 2-cent stamp for fine illustrated catalogue. Circulars only for card. Satisfaction Guaranteed.

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Bred exclusively by me since '95. They are even from tip to tip, and of best blood in America. At Torrington, Conn., Show, Nov. 27th-30th, in strongest competition ever in State (68 birds), on 5 entries won as follows: 1st ck'l, 2nd hen, 3d cock, 1st pen; special for best ck'l; special for best cock and ck'l. At Hartford, Conn., Show, in strong competition, on 2 entries, 3d ck'l (1st pen ck'l at Torrington), 2d pullet. At Providence, R. I., in strong company, on 4 entries, 1st cock, 1st ck'l, 1st pullet, 3d hen; specials for best surface-colored cock and ck'l; 1 special best under-color; 1 special clearest tail; 2 specials for best cock, ck'l, hen, and pullet; 1 special for best cock; 1 special for best ck'l. Eggs booked now from above winners, at \$2 per 15 straight, and you get the very best. Stock for sale. Address, P. W. NOYES, Quaker Hill, Conn.

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1st and 2d hens,
1st and 2d cocks,
1st, 2d, and 3d pullets,
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1st, 2d, and 4th breeding-pens,
AND ALL SPECIALS,

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We guarantee this to cure or refund you your money. Follow directions on box and you will never lose a bird. Prices 50c. and \$1 per box Postpaid. A 50-c. package makes 25 gallons and the \$1 box makes 75 gallons of medicine.

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CUT
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Cut Clover Hay

beats anything you can feed fowls in the winter, to make them lay. It furnishes just the amount of protein-albumen they need. They find this in scratching about the yard in the summer. If you want them to be winter money-makers for you, get a good supply now.

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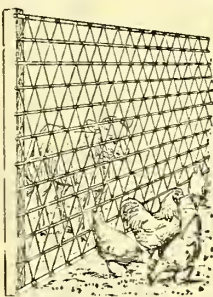
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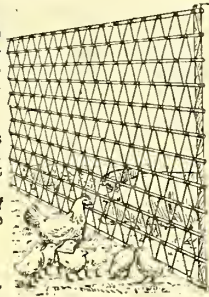
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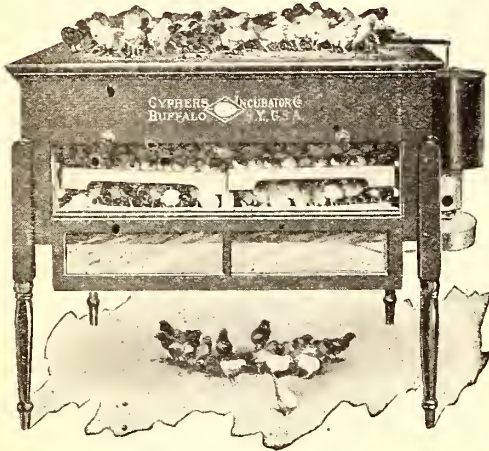
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NEVER LOST ON BREEDING-PEN

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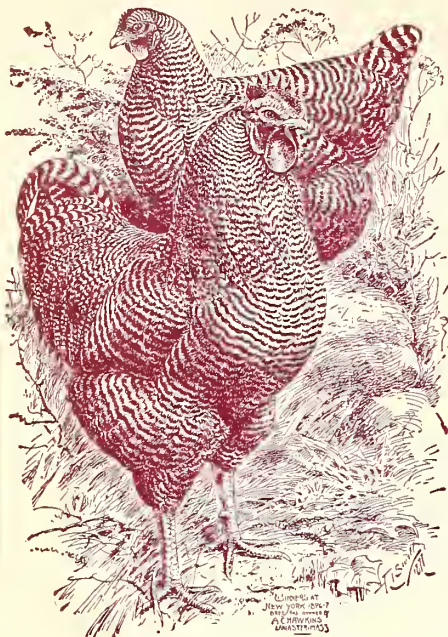
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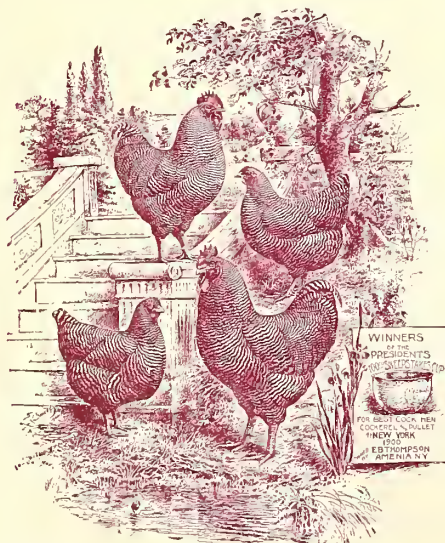
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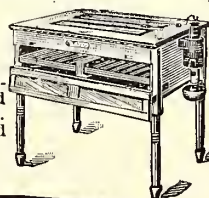
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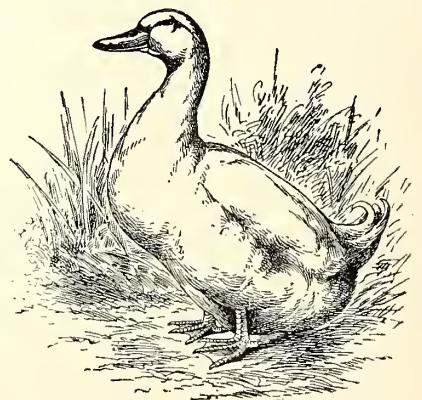
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Still keep to the front, having taken nearly everything in sight at Nashua, N. H., December 3-6, 1901, winning 1st pen; 1st, 2d, and tied 3d cockerels; 2d cock; 1st, 2d, and 3d pullets; 2d hen. I entered two birds at Boston in the open class (1 cockerel and 1 pullet) and won 2d pullet, two specials; and H. C. on cockerel, or 5th place. This record together with my record of the last two years places my line of Barred Plymouth Rocks with the best. I have some choice cockerels and pullets, own brothers and sisters to my winners, for sale at live and let live prices. Eggs are now being booked at \$3 per setting, or two for \$5, from the best pens I have ever put together. Satisfaction guaranteed. Write for prices.

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IN THE HEARTS



OF THE PEOPLE

The Successful Incubators and Brooders

are primarily the machines for the people. No need of your being a mechanic to make success of the chicken business with the **Successful**. Simple, sure, safe. Fill it with good eggs, and it does all the rest. Our new catalogue makes everything clear. It is a beauty. Five different editions in five different languages. We send you the English edition for only 4c, others are free.

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HOUDANS.
BUFF WYANDOTTES.
WHITE WYANDOTTES.
BUFF PLYMOUTH ROCKS.
ROSE COMB WHITE LEGHORNS.
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SINGLE COMB BROWN LEGHORNS.



THE whole country knows of the wonderful success that the Riverside Farm has made on the above varieties at the leading shows in America. In five years our birds won at New York, Boston, and Washington, 186 firsts, 60 gold specials, 18 silver medals and 6 silver cups. Our line of blood is unsurpassed, and we are producing specimens that are winning all over the country. The blood is pure and we breed only the best. We can supply your needs. Send for illustrated circular giving full prize records of our birds. We also breed Guernsey Cattle, Scotch Collies, and Fox Terriers. Satisfaction guaranteed in every particular.

Address,

RIVERSIDE FARM,

JAMES FORSYTH,

Box A, Owego, New York.

A WORD ABOUT INCUBATORS

If you want an Incubator or Brooder you should send for our free catalogue. We are making the hit of the year by offering a 100-egg 3 walled copper tank (hot water) self-regulating perfect incubator for \$10.00. Sent on **40 Days' Trial**. Pay when satisfied. Nuff said.

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60 Eggs For \$3,

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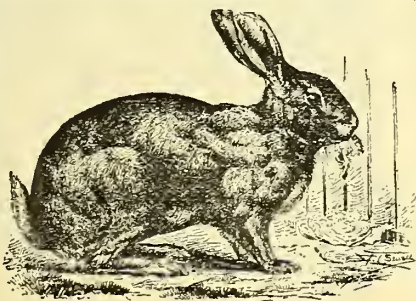
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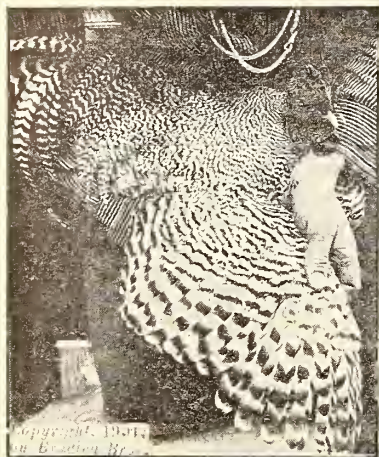
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At nearly every large show this season a Grand-Son's Brother-bred male has been a winner in the First Place.

We Have Liberty to Publish All Facts Given in This Advertisement.

FEMALES. \$525 was recently refused by us for a "GRANDSON'S BROTHER 5th" cockerel and 4 "LEE BELLE" pullets. All our breeding.

Six Females of OUR BREEDING were winners of First Places at recent National Shows, and 15 of Our Breeding have been winners of First Places at New York Shows.

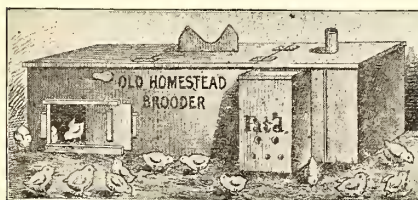
The HIGHEST PRICE EVER GIVEN in this country, to our knowledge, for a Barred Plymouth Rock, either sex, was recently received for one of our "LEE BELLE" females.

SHOW BIRDS as heretofore, suitable for any competition. Also a grand lot of medium-priced Exhibition Birds. Hot ones for the money. Carefully mated breeding-yards of our best blood at very moderate prices. Special rates on poultry in large numbers. Large circular of "AMERICA'S BEST-ILLUSTRATED," Free.

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Seven First Prizes at recent National Shows have been won by Sons, Brothers, and Cousins of "Grandson's Brother 5th," either singly or at head of pen. All bred and raised by us.

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My Minorcas have never lost a special for large size, and have won more prizes in strong competition at New York, Boston, Washington, and other leading shows, than any other four strains combined, which proves the quality of stock I sell.

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Have won more prizes at the past five Club Meeting Shows than all other strains combined. Winning at Philadelphia, Pa., from December 28, 1901, to January 2, 1902, 1st and 2d cocks, 1st, 2d, and 4th hens, 1st cockerel, 2d pullet, and 1st pen; and 18 specials, including 4 silver cups in a class of 71 single entries and 7 pens, winning the Club (\$250) Cup at New York, 1898, 1899, and 1901. 5 Grand Pens mated with the best birds in America, in them eggs from these pens, \$5 per 13; \$9 per 26. One special pen headed by Anthracite, Jr., weight 10 lbs.; 1st cock at Philadelphia; acknowledged by judges to be the Best Minorca Male ever seen, mated with 8 grand females each weighing from 7 to 8 lbs. A limited number of eggs from this pen, \$10 per 13 straight.

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We guarantee to please you, or you may return birds at our expense, and we will cheerfully refund your money.

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Rose C Brown Leghorns. The world's best; 242-egg strain; cherry-red and black-striped males. S C. Brown Leghorns. First cock New York, two 2ds on hens, 3d cockerel, and 5th pullet. First cock and cockerel Washington one year. Many firsts in other shows. Barred Rocks, (Bradley strain). 6 firsts Sanatoga and Reading. White Wyandottes, (Duston strain). You will find ours equal to any no matter what price. S. and R. C. White Leghorns; 12 firsts Single Comb; 8 Rose; large, pure white; great egg strains. First Rose hen at Philadelphia and New York, 1902. Buff Wyandottes (Mattison and Dutcher). P. Ducks, 6 firsts. Eggs, \$2 per 15; \$5 per 45. Duck eggs, \$1 per 12. Cat. W. W. KULP, Box 20, Pottstown, Pa.



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Our Little Hatchit Incubator
is a 75 egg machine, made on the same principle as the Sure Hatch, same material and construction throughout. After a hatch is over, remove egg tray and the same machine broods the chicks. For fanciers or to those raising poultry on a moderate scale the Little Hatchit is unequalled. Guaranteed as above. Big catalogue full of ph to views and honest poultry information. Sent free. When writing address nearest office.

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GOLDEN PENCILED WYANDOTTES from the best strains in America. Eggs from all varieties at \$3 per 15; except Silver Penciled, \$10 per 15. No stock for sale except Buff Rocks. White and Blue Belgian Hares at right prices.

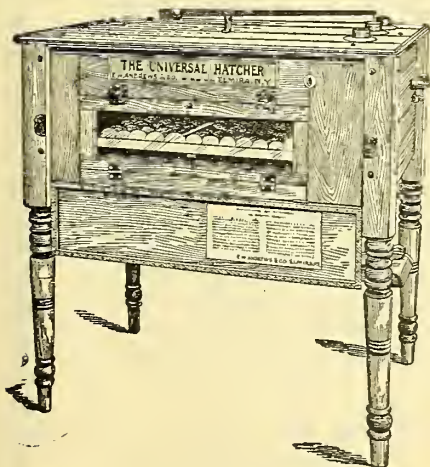
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BUFFINTON'S BUFFS.

We will sell eggs from No. 1 prize stock of Buff Wyandottes, Buff Leghorns, Buff and Barred Plymouth Rocks, Rose, Pea, and Single Comb Rhode Island Reds, \$1.25 per 13; \$3 per 40; \$6 per 100. Partridge Wyandottes and Partridge Plymouth Rocks, \$2 per 13; \$5 per 40; \$10 per 100. Incubator eggs from utility stock of R. I. Reds, Buff Wyandottes, Buff Leghorns, Buff and Barred P. Rocks, \$3.50 per 100; \$6 per 200. Send for circular.

ROWLAND G. BUFFINTON,

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Look! Look! Look!

Now is your chance. Buff Leghorns. (A. G. Arnold Strain) eggs, \$2.50 per 13; \$4 per 26. White Leghorns \$2 per 13; \$3.50 per 26. Orders promptly filled by addressing,

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We have sold our surplus cockerels and need all our females to enlarge our plant. Shall have only a few WHITE WYANDOTTE eggs to sell this season. No order accepted for more than two settings from one party.

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New York and Poultry
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ROCKS, Buff and White.
GEO. H. BURGOTT,
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Lawton's Station, N. Y., U. S. A.

Eggs for Hatching, \$2 per 13.

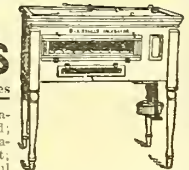
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Standard High-Grade Machines
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Prices postpaid. 250 12-1b. Letter-Heads, \$1.35; 250 No. 1 Envelopes, 6 1/4 inch, \$1.35; 250 Business Cards, Regent Ivory, 2 1/2 x 4 1/8 inches, round cornered, \$1.10; 250 Private Mailing Cards, two sides printed, \$1.25. **Samples free.** Name your favorites when sending for them. I have the finest Sewell cuts.

I have a complete line of Am. Ply. Rock Club Ideal cuts. "Ringlet" pullet cockerel for sale. Send for photo.

JOHN ENGEL, JR.,

Printer and Breeder,

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White Plymouth Rocks.

Stock birds of large size, having fine color, and of excellent strain.

Eggs, \$2 per setting. A good hatch guaranteed. Write for information.

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White Wyandottes, Barred Rocks, R. C. Brown Leghorns.

EGGS.—Incubator Barred Rock and Leghorn eggs, \$5 per hundred.

At the Madison Square Garden my White Wyandotte cock won 3d, with 17 behind him.

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the same old way when our new plan beats it 10 times. 100 Egg Hatcher Costs Only \$2. Over \$4,000 in use. 100,000 test'ls. 5,000 agents wanted for 1902, either sex. Pleasant work. Big profits. Catalog and 14 Egg Formula FREE if you write today. **Natural Hen Incubator Co., B 9, Columbus, Neb.**



YOUNG CHICKS

Just hatched from

B. PLYMOUTH ROCKS

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S. C. WHITE LEGHORNS,

at 8c. apiece. Distance no objection. Send for circular. **JOS. D. WILSON, Stockton, N. J.**

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We are Wholesale Jobbers of all the best **Standard Poultry Specialties** and want to quote you prices on large or small amounts.....

"Vigor" Prepared Meat

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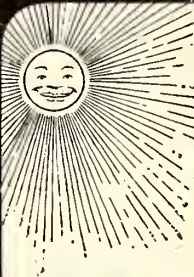
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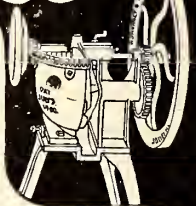
but fertility counts for little if the chick hasn't sufficient vitality to get out of the shell, and stand the trials of chickhood. Cut green bone promotes both fertility and vitality. Green bone is easily and rapidly cut by the

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In raising **BELGIAN HARES** if you **START RIGHT**, it all depends on that! Don't buy inferior hares because they are "cheap" (?). Get the best—then you can't help making money!! You can't buy a "scrub" animal of me. You can buy high-grade hares cheaper than elsewhere. Because I have ample facilities, handle only fine stock, breed intelligently. Correspondence solicited. **THE ROHLSSEN RABBITRY, 659 Hirsch St., Chicago, Ill.**

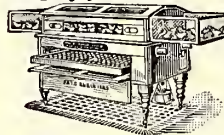


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FOR POULTRY AND PIGEONS.

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Rather Risky Business,



this buying untried incubators in these days of the perfectly working and surprisingly simple

Reliable Incubators and Brooders,

where every fertile egg means a strong healthy chick. Guaranteed to do the work and do it as it has never been done before. The **20th Century Poultry Book** ought to be in every chickenman's house. You will not part with it for many times its cost. Discusses the poultry business from your view point. Sent anywhere for 10c. **Reliable Inc. & Bro. Co., Box 5, Quincy, Ill.**



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To increase the circulation of *THE FEATHER* more rapidly, and as an extra inducement to begin immediately, we have determined to give a club of four yearly subscriptions to *THE FEATHER* for \$1. This offer is limited to March 1st, and those desiring to take advantage of same should do so at once.

Upon receipt of this Coupon and One Dollar in cash, together with four names, we will send *THE FEATHER* to each of the four names for one full year. This rate is just one-half the regular subscription price to *THE FEATHER*, and so liberal an inducement might never be given again. If you are already a subscriber, get three of your friends to subscribe with you at twenty-five cents each, and we will extend your subscription one year from date of expiration of old subscription. Do not send stamps. Make all remittances payable to

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Washington, D. C.



A National Journal Devoted to Poultry, Pigeons, Birds, Etc.

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VOL. VII. No 5.

WASHINGTON, D. C., FEBRUARY, 1902.

FIVE CENTS.

THE PRESENT OF THE FANCY.

No Regrets for the Past, nor Fear for the Future.

The Chances of Success Better To-day than Ever.

As we go over the situation as it seems to us all things are brighter and better for the fancy than they have ever been, and we feel assured of a better future for all. Our reasons for this we shall try to explain in detail and at the same time help to aid our readers in their desire to have an interest in the gain that must come to all who work for it in the fancy.

The strongest proof of the healthy growth of the business is seen in the grand total of entries at our three eastern shows. Who could have hoped for three such great events to take place all in three weeks and to have a total of over twelve thousand entries at the three? In addition to this who on earth could have hoped to see such quality throughout this grand gathering and in every department of same?

Quality is the secret of success. Without this success can not come in the poultry business, and when we see twelve thousand entries of all kinds of fowls and pigeons within poultry shows in so short a space of time, and the prizes so well distributed we can rest assured that the best of quality was present, and that no one exhibitor had all that was good in the show.

Again, we have only to go over the catalogues of these shows and compare them with those of other years to see how many new exhibitors have come forward to contend for the awards. This alone teaches the lesson of the times, progression, the evidence of which is on every side, and with its coming we have this grand array of new fanciers who have pushed aside in many cases the old-timers to contend with them for the prizes of value. Herein is the strength of the future. Each new exhibitor who succeeds in the show-room satisfies others that they can do the same, and another year finds them in the show-room with winners.

A LOOK INTO THE PAST.

"Take a look," was most popular of the Pan-American, and well we might for in

so doing we discovered that the old-time winners of the Chicago World's Fair had given place to the new, who had come for their share; but far more than this was the present evidence of much better quality than was shown in the past, as well as more ability to prepare birds for the show. As we look back we see the then winners in their breeding-pen condition while now we see them in the bloom of perfection; then we had them as we see them in their yards, now we see them in their drawing-room dress; then we looked upon our displays inside the teachings of the times, now the artist's hands have added the glow of condition that brings to our view the show bird at its very best.

Not so many years ago they came into the show-room with the dirt of the barn-yard on foot and feather; to-day such neglect would at least shut the specimen out of the prize-list if not almost out of consideration at the hands of the judge, who could not think quality could be hid under such carelessness and filth. In the past, any old box-coop did for an exhibition-coop, but to-day a Spratts Patent or an Empire must be furnished for the occasion or one equally as good, or no one will send their stock to the show. All these facts prove how we have gone forward in several ways.

Again, as we look back we can count the poultry shows almost on our fingers, while to-day we can scarcely keep track of them. Then a few old-time exhibitors bred all the good ones and won all the prizes, while to-day it is no one man's game and, to be candid, no one man has or can have all of the best any more. The old days of all looking in the one direction for their stock have changed, and to-day we can see on every side breeders of merit who contend with and often compel the older heads to go to the rear with the losers. Herein is the power for future success in the business. So long as a few could hold all the winning cards and play them, we must all continue to be buyers; but as soon as honors become distributed all along the line,

the selling becomes more general and we all have our share in the success of the fancy. This urges all to better things and improves us all and our stock as well.

THE PRESENT.

To-day we can say that in Brahmas and Cochins more and better are shown than ever, and no one can tell till the show is over who will have the best. No one breeder can or will rule with absolute power in these classes for years to come. For this we are delighted for therein lies the future success of the breed. Such Brahmas and such Cochins as have been shown this year at Hagerstown, Buffalo, Philadelphia, New York, and Boston tell us that there are dozens of good breeders of these fowls from whom the best is likely to come. Each year this divided success spurs them on to better things. No one who is continually beaten can go on with the best of heart, but a taste of success urges on to better effort.

Just go over the list of winnings since the fall fairs began at Syracuse and Cambridge. Follow them to the end of the show season and each week brings new surprises in the way of a new aspirant that has come into the arena to set aside the winners of weeks past. See the invincible at Hagerstown go down at Buffalo. See the Buffalo winners fall to a better at Philadelphia, and some almost so good at Philadelphia as to be called perfection fall gracefully two weeks later at either Boston or New York. This is the condition that we applaud, for it means success to the greater number and this must be for the best interest of all.

For example, we shall bring to notice two very prominent cases, and these are the American and Mediterranean classes of this winter. It is true that many of the old exhibitors have won in these, but as we go over the list of awards of the whole lot of winter shows on these two breeds in all their varieties, we find how very extended is the territory comprised within the limit of strong winners and we find that the names of the fortunate number into the hundreds. This gives new life to the fancy and tends to increase it and strengthen the trade in well-bred stock.

We wish to call special attention to the Brahma at this time, for it is a delight to see so many of them shown of both varieties, and more than pleasing to have a right to record so fine an increase in the Darks at our shows, the quality of which would delight the lovers



LIGHT BRAHMA MALE.

of this beautiful variety. They are now of type and size equal to the Lights and for color some of them can not be better. This noticeable gain in quality has aroused an interest in them again and our friend, Philander Williams, tells us he can get as much for a good Dark as for a good Light Brahma at the present time.

The same is true of all our popular breeds. More Barred Plymouth Rocks than ever are grown. More names are found in the entry-list of our shows and the awards are more generally divided among the many. Those who once ruled the sea of fame, must now give way for winners of another name. The blue cast of this variety may have suffered somewhat, but as this has gone size and shape have gained with better barring, and we shall hope in the future to see the shade of color better and above all a better surface-color. We would not for a moment contemplate the loss of the beautiful, clear surface-color of the past that was worn by our beautiful Barred Plymouth Rocks; better by far bring together the very best, size, shape, and color in one.

OUR AMERICAN BREEDS.

It is a pleasure to note the progress made in our American breeds. The quality of the Buff Plymouth Rocks has advanced so fast the past two years as to be almost a marvelous progression. At Philadelphia, New York, and Boston, there were about four hundred of them of the finest quality, and no one or two men owned them; they came from a dozen different States and twice as many owners as States were represented, and it is a pleasure for us to be able to say that some of our oldest advertisers were among the fortunate winners.

In both size and shape these have gone forward. The true Plymouth Rock type has become so very strong and well established as to rival either of the other two; the general make-up of many of them could be made use of as a model for type. Such specimens as first cock and second cockerel at Boston, father and son, might well be chosen as advance style for shape, color, and beauty in the variety. Come again to the winning males, females, and first pen at New York; they were beauties and the pen throughout so even and beautiful. The Whites have gained, if possible, even more than have the Buffs. Oh, such quality as has been shown in them all along the line this season! If they go on for better we know not when they will stop.

This great advancement in these three varieties of Plymouth Rocks is well met in the Wyandotte family by the Whites, Buffs, and Silvers. Several years ago when *THE FEATHER* illustrated the real beauty of true open lacing for the Wyandotte, our people thought this was beyond reason. The English papers copied even to our illustrations, and the breeders over there took hold in earnest and soon put us to shame with their high quality for color and lacing; but to-day, be it said to our credit, we have the shape, size, color, and beautiful open lacing on many of our best specimens; namely, the females that won at Philadelphia, Boston, and New York, as well as in the display-pens at the two latter shows; in these Silvers is a marked lesson for the Golden to follow. This is part of the work of the future. Let us have in both the Golden and Silver Laced far more of quality than has yet been seen in them.

We have given so much space to

Silver Laced Wyandottes that we need say no more of them, and the increased quality in Whites is so well established, that we need to say but little of them, for their praise has been sung on every side by thousands who love and admire them. Of the Blacks be it said that they have advanced to a strong position for quality; some of equal quality to the Whites being seen for both shape and color. All these Wyandottes have gained so much of late as to make them most attractive.

We wish that we might be able to speak in the highest terms of the advancement of the Buff Wyandottes, but it must be said that as a lot they have not done so well as have the Buff Plymouth Rocks. Some years a few splendid specimens are seen, but as a whole they lack in size of females as compared with other Wyandottes, and color is not as well established as with the Buff Plymouth Rocks. If all might have equally as good shape as first cock at New York, the size and color of first pen and first cockerel, if the general average could be as good as these, would feel that they would spring to first place. All should pull hard and strong for this with earnest determination to win.

While speaking of these we must give credit for the new Wyandottes that have so much of high quality in them, for surely they stand as a sample of our success at producing the best. With these must go the Rhode Island Reds and the new Plymouth Rocks. Such a beautiful line of high-quality fowls speak in highest praise of our ability as breeders in this land, and for these reasons we said in the start that we had no cause for regret nor fear for the future. That which makes us all proud of our American classes gives us the assurance of no need to have thought for the future other than to push ahead.

The Golden Penciled Wyandottes.

Editor The Feather:

The Partridge Cochins' beautiful feathers upon a blocky Wyandotte come as near, it seems to me, to making the ideal fowl as the busy breeders of Europe and America have hitherto succeeded in doing. For the Wyandottes are most useful, fit for food at an early age, good at any age, hardy and excellent layers and sitters; indeed, where a yellow skin is desired, one would not go wrong to select the Wyandotte for one of the very best all-around fowls. I think them the best.

Now, when this fowl is clothed in the exquisite garb of the Partridge Cochins, the beautiful and the useful are united, as we seldom find in any breed of domestic poultry. So much for theory. Now for the facts. I have bred Games, Brahmans, Plymouth Rocks, Leghorns, Hamburgs, Minorcas, Cochins, White Wyandottes, Polish, Sumatras, and Indian Games, and all things considered, the Penciled Wyandottes easily lead. They are not the best layers, nor are they the best table fowls; but they come so close to the leaders in these two separate classes, that, all things counted, they lead the list. Such is simply my experience, and I hope the breed will be sensibly handled so that it will not become a merely useful or a merely fancy fowl.—J. T. LITTLETON.

THE BETTER QUALITY.



Those Who Would Prosper in the Future Must Produce the Best.

Each day and hour girdles us closer to the concentration of all things. Business is drifting into combinations that force us all to consider the future and this is the same in the poultry business. Those who are able to concentrate the greatest amount of good quality into their stock gain the positions of advantage in the show-room that lead to a concentration of the paying trade within their grasp. All this comes as the result of hard, close attention to every detail to its completion.

Because we pay long prices for exhibition stock is no assurance of quality. Many ten-dollar specimens have been sold for five times their value, as have hundred-dollar specimens been picked up for ten. It is all in knowing your business and attending to it as you should. Forever put from your mind the hope of gaining a front position in any following you do not understand. You must know your business to succeed with fine poultry.

In the late winter shows we have seen so much of the constant and persistent "Wonder why my birds don't win." Those who can not see the superior quality of the winners over the losers even though they own the losers are far from being competent to decide what is a good bird and how to produce it. To produce the best is not a chance game. We must fully understand just what is the best and how to produce it or we can not hope to succeed with them. Those who hope to succeed because they own a few fowls they have bought of those who have won and who continue to win will be left. You must have at least enough knowledge of the breed to know how to mate them for success.

Just consider for a moment those who succeed with Brahmas and Cochins. There are but few who hover about the top. Why is this? Why should they do better than you? All can be told in three words, knowledge, care, and condition, or in other words they have the knowledge to care for and condition their stock. This is the whole secret of the business. To succeed you must learn it well.

ASIATICS.

Brahmas and Cochins above all other fowls are the most difficult to produce of the best quality. They must be pushed from the shell to the show-pens. Whenever or wherever you hear persons say they can not get their fowls to size you may depend upon it that they have not learned to make use of hens of large size for breeders, nor have they learned how to properly feed them while growing. To grow Brahmas or Cochins to full size demands not only plenty of food but the proper kinds of food in such amounts as they need. Here is where the knowledge comes into play; here is where we display our ability. An expert has only to see the stock to be able to tell of the ability of the one who reared them.

Brahmas must be fed for bone and size, Cochins for bone, size, and feather. Those who only feed to satisfy their appetites will fail. You must feed for all the component forms of the fowl

you produce; feed these large fowls for size, bone, muscle, and feather. As you watch them grow if they falter in any of these you should change the care and food to improve those short-comings. The ability to do this is the knowledge that comes of experience. Some learn one from the other, but this is seldom the case. These lessons are best learned by experience.

AMERICAN BREEDS.

The tendency to increase the size of our American breeds beyond what it should naturally be will in the end injure them as an exhibition breed. We should be fully content with natural size as would be guided under proper shape, and not extend the size beyond what it can be while maintaining the best shape. This effort for too much size has gone beyond the meat-making fowl into the Minorca as well. Many of them are now bred of greater weight than the Plymouth Rock. This is really worse than the effort to make the White Wyandotte as heavy as a Brahma.

No breeds are equal in all respects to our American breeds. They have all the best qualities that a fowl can have.

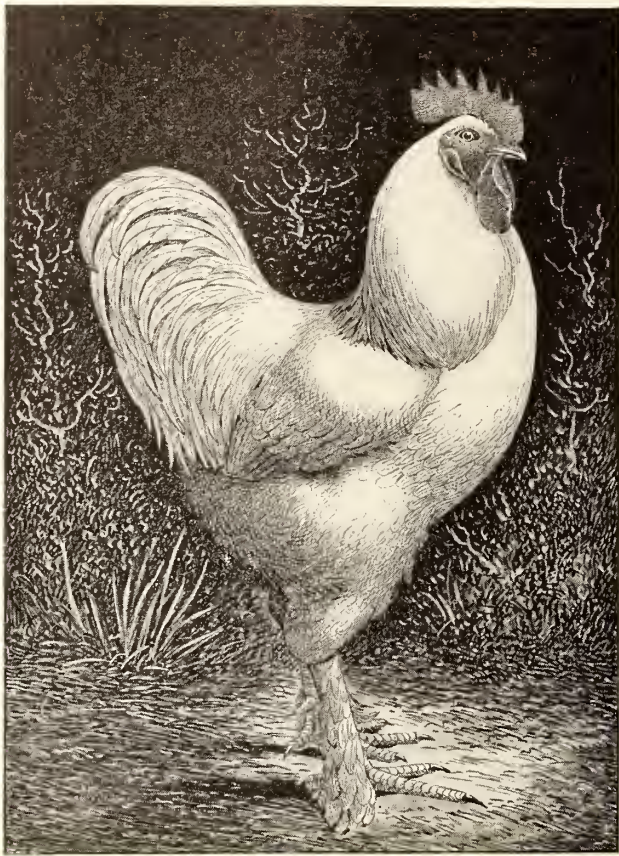
They have the medium plump shape and it is quite an error to hope to have them so large as a Brahma. The most beautifully-formed specimens are the smaller ones, and not the oversized ones. Medium between a Brahma and a Leghorn is their natural size and we should all lend our aid to having them trained within these lines and not induced to grow beyond such size as is best for the maintenance of good form.

The time has come when we can say that there are being produced some beautiful Silver Laced Wyandottes, that have the clean, clear, open lacing, as it is called, with the center of the feather clear and white with no mousing to injure its beauty. This style of beautiful plumage has come to the front very strongly this winter at our leading shows. Now if some one could do as well with the Golden we should have two beautiful and attractive styles of color with the same attractive form of center and lacing. It is a pleasure to note the advancement made in Buff Wyandottes both in shape and color, at the same time the usual size of the pullets we see is not quite as large as it should be. With these Buff Plymouth Rocks contend for the greater consideration for improvement.

The new additions to our Wyandotte family are holding their own and proving their quality. They have a standing in the fancy that excels what might be hoped for in so new a variety. All these



BLACK MINORCA MALE.



WHITE LANGSHAN MALE.

conditions point to better judgment and care in their formation than is usually present in these new breeds or varieties as formed. If this could always be, our troubles would be less in their handling.

MEDITERRANEANS.

This family has gone to the front so fast in sterling qualities of all its many varieties, that their position is far stronger than ever, Leghorns, Anconas, Andalusians and Minorcas all claiming the highest attention in our shows. Large numbers of each and all are shown continually. No one can find fault with the quality of any as a class. In this we have the substantial proof of advanced ability in breeding them. Right in the neighborhood of this, the Capital City, are bred Leghorns and Minorcas equal to the best in the world. This is the outcome of the good influence of the poultry show that educates us all for better quality. If all could come under the good influence of the poultry show they could soon learn how to have better quality.

The size of our Leghorns is being gradually enlarged within the proper limit. We shall hope to see this indulged in to that extent which holds the true type; beyond that it should not go. We have in the Andalusian and the Minorca Mediterranean fowls that are quite large enough to please. Should we wish a white fowl of this type that is larger than the White Leghorn we had better select the White Minorca and not try to mix the two, for by so doing you spoil the head-points of your Leghorns which feature is their beauty-mark. Keep these forms all in your mind and do not be led astray in them.

THE ENGLISH AND FRENCH BREEDS.

Dorkings and Houdans are fast gaining a place among our best-favored fowls. Both are seen in large numbers at the Boston Show. That locality seems to draw these, also the Polish and Hamburgs in larger numbers than go elsewhere. We now have added to them the Faverolles, a new French breed that we illustrated so fully a short time since. Both this breed and the Houdans have had full illustration in the columns of this journal within the past six months. The Dorkings grow in favor with all who know them well. The pioneer of the Dorking fancy in this country, Mr. Henry Hales, tells us that the Dorkings are fully as good egg-producers as the American breeds. This is not generally known to be the fact. When this fact is fully established they will be much more popular.

The Orpingtons hold a strong position in England and they have advanced considerably with us. It may be that ere this goes to press they may have been admitted at the Charleston meeting. If so, they fully deserve this recognition for their cause is safe and just with such advanced birds as Mr. Vass' and a few others who have done so much for them. The future success of all these depends almost entirely upon their quality. If of the best they will win out; if not, they must go down and out.

More and larger eggs seems to be the present demand. If we can succeed in having this as one of the desirable advantages of all our hens we shall do better and better with them all the time, for the hen that will produce the greatest number of good quality at the most reasonable price or cost must finally gain the position of honor. The question

of quality and cost will finally settle many of the most vital questions to be considered. It will be worse than folly to hope to gain favor on the gentlemen's farm or on any farm anywhere unless you can show that the fowls you favor will produce the largest number of eggs suitable for family purposes.

In addition to these we have the Rhode Island Red that has gained so much prominence with us. This has found its way into the hands of our English cousins, and must come back to us sooner or later from their hands in a finished condition. The time we spend quarreling about this point or that, they will take advantage of in building up the breed so as to send them back to us at long prices for us to use as exhibition stock. This points to the reason of their success with poultry. What they do in this line is well done, whether for shape or color. We might well follow them in our labor for quality.

Mr. Brackenbury, who has done so much for the Wyandotte family, works on these well-considered lines. He originated the best strain of Buff Wyandottes and his Penciled Wyandottes have gained the honors all over the world. Such work might well be followed by all who hope to succeed along the line of the highest quality, that must be kept in mind as we go along to the advanced conditions as we find them in the show-room.

THE QUESTION OF COLOR.

To win to-day a fowl must have almost perfection of color. In this line we are led to remember the first and second Buff Wyandotte cockerels and the Buff Plymouth Rock cockerel in breeding-pen at Philadelphia. These three buff fowls were true samples of what buff color can and should be. This same elegance of color should be present whether it is a Barred, Penciled, Laced, or solid-colored bird. It is the quality of color that is demanded as well as good shape; both must be excellently strong or it will not do any more. We call your attention to our show reports so you may see just how good a specimen must be to be called the best. White must be pure white and black must be of the richest and most brilliant shade. No use sending up specimens whose wings have been cut, bit, and slashed. The whole wing must be there, good and true with nothing gone or it counts against the specimen almost as if bad color was there. It is no use to hope for success when the evidences are that the bad color has been bit, burnt, or broken out. If black, the whole wing should be rich and bright to the very point including the quill. The same must be true with all colors if you hope to win in close competition.

You may rest assured that as time goes by better and better must be the stock that wins. The young, new blood that comes into the show-room each year begins right where the older exhibitors are. When they come they bring with them all the vim and push of youth. To keep ahead or even with them means hard, close work and attention to the thorough conditioning and care of your stock. To win you must have the best. Make your matings for the year with this in view if you hope to win next winter.

The report is current that W. J. Andrus will close out his stock of bantams prior to going south for the winter. No one has better than he, and those who get them may well be proud of their possession.

THE PHILADELPHIA SHOW.

A Grand Gathering of *The Feathered Tribe* Within a Coliseum That is Most Appropriate for *The Display*.

The well-lighted interior of Auditorium Hall at Philadelphia rivals Madison Square Garden as a splendid place to hold a poultry show. If it could all be one level floor it would surpass even the Garden. If it might be possible to have this wonderful building prominently located in or accessible to the city it might become famous, for its capacity is so great that a circus, minstrel show, and poultry display might all be going at once under its roof; but the unusual number of very large signs that say "No SMOKING," continually remind one of the unsafe construction as regards fire.

In the one open hall where our late President was renominated was housed the large aggregation of entries and displays that made one of the most attractive poultry shows that we have attended. In the center of what might be called the orchestra floor, was placed the greatest lot of poultry merchandise of all kinds from leg-bands to incubators, foods of all kinds, supplies and poultry papers all boothed under large, gay-looking banners that told afar who was located beneath them.

The management should be congratulated upon their success. The management was good, the hall well kept the fowls and pigeons were placed upon the incline on either side of the orchestra floor and back of these were the rabbits and pet-stock, all easy of excess, and no matter where you went the light was good and the passageways comfortable, plenty of room for all that were there and plenty there to fill one of the largest

halls in the country. Superintendent Raekham and his man, Smith, did their parts superbly well, and we saw several faces here and there among the coops that are always seen at the New York Show. For the benefit of our readers we give the number of entries in the several departments:

Open Classes Poultry	1436
Open Classes Pigeons	979
Exhibition-Pens	73
Sale Classes	93
Cats, Toy Dogs, and Pets..	359
Other Displays	116

Total catalogue number 3056

It will be seen from this that the display was large, well balanced, and of that character that would draw the crowds to some part or all of the congregation of fine stock.

The Asiatic classes were remarkably fine. Some of the best Brahmas and Cochins in the country had gathered there, as if to test their metal prior to the New York and Boston Shows. The winners here, in Cochins specially, will go on to New York where they will either gain the name of being the best in the land or else give way to better than they as may be. Who can tell? Only time can answer, and before this is read the result will be known, and so it will be all along the line. So of this early show we shall only mention the stronger points, leaving the final description for the other events.

Barred Plymouth Rocks brought to-

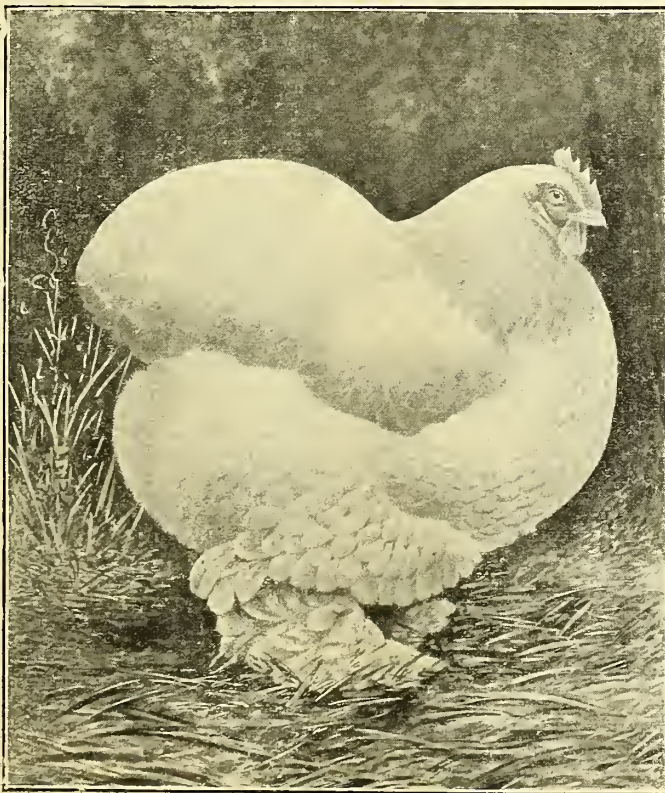
gether here a most elegant lot of birds, the best by far this season, and the same may be said of the Whites. Such shape, color, and finish are seldom seen on any fowl as were present with these beautiful birds, that were shown in condition that would rival the world almost for finish, but when we mention beauty the Buff Plymouth Rocks must have their full share of praise, for all unite in admitting that the display of Buff Plymouth Rocks at Philadelphia was superior to the grand lot shown at New York last winter. None better have ever been shown any place, and the winners simply take the whole bakery for their own. One cockerel in the exhibition-pen attracted all who love buff fowls; he was so beautiful and perfect in color as to be almost the ideal. Next to these we should place the Buff Wyandottes for elegance and finish. All the classes in these were so very strong that one must stop to consider his preference, but with us the winning cockerels are in favor. We should call the winners of first and second about all right in every way, could hardly say where to better them. Some of the pullets were close to them if they had a little more size, the color of the winning pullets being excellent but they were too small for Wyandottes; this we presume has come from close breeding for color and can soon be improved.

The White Wyandottes excelled any like display ever made, for full of quality, size, and good points one might spend a day with them alone. The cock-bird of this variety in the winning pen we should call the best Wyandotte male of any variety that we have ever seen; this male and the winning hen were selected by an expert who bought them for the New York Show. Later we shall know of their success. Never before has there been shown in this country four such hens and such pullets as those shown in Silver Laced Wyandottes. We are told that these will not be shown at either New York or Boston. This is unfortunate, for they will do the variety honor wherever they go, such clear, clean, open lacing is seldom seen. What a contrast it would be if it might be possible to have the Golden Laced equal them in this grand open lacing and rich border-color or lacing!

The Minorca classes are said to be the largest in the history of the club; two members winning about all the higher honors on a superb lot of birds. Secretary Blaton should have all the honor possible for having brought together so grand a lot of birds, and in having fairly won so many of the regular and special prizes. His work has done much good for the club and the breed and he has shown that he is a past-master at producing and showing Minoreas. In White Minoreas some very good ones were shown. In Rose Comb Blacks the quality was surprisingly fine; some of these would rival the Single Comb for real quality.

Brown, White, and Buff Leghorns all strong classes, full of quality. Judge Howell gazed with pride at some of these, his favorite kind, and called them beauties, and we will admit that he was right in this, for no one has seen better, we presume, all the world over; and this same good quality was seen in all varieties and in both open classes and exhibition-yards.

The Wyandottes from Beaver Hill Farm could scarcely be surpassed for quality. Both the Silver Laced and Partridge attracted attention from all



BUFF COCHIN FEMALE.

sides, as did the display-pens of A. C. Hawkins, who always has the best of everything in sight. An unfortunate fire at Valley Farm kept their exhibit at home, except the Faverolles that have gained so much notoriety this fall and winter. It is to be hoped that their luck will turn with the New Year and that Valley Farm will go to New York and Boston with a winning string.

Standard Games, Indian Games, and Pit Games all very strong classes, some of the very best of them the world over were shown. If they can be better we can not tell how it could be, for it seems as if the limit had been reached in all these breeds that are so very different, though all called Games. It is a pleasure to note the improved quality in the White Indian Games, that may yet prove a rival to all the White breeds.

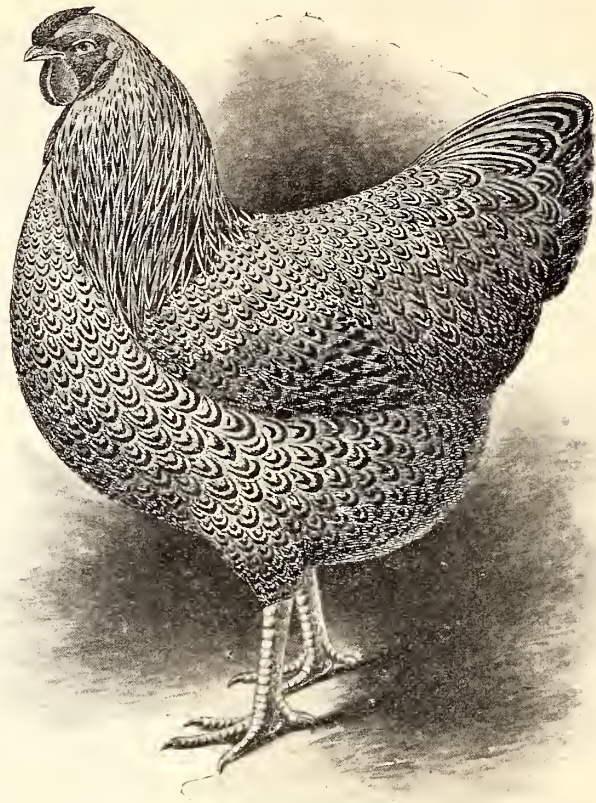
Polish, Hamburgs, Houdans, and Dorkings, all full of merit and while not so strong in number as the American classes they were quite exempt of any poor quality. All shown were beautiful specimens. Orpingtons and Rhode Island Reds had their full share of the honor in this fine display, as did the geese and ducks, which Judge Crangle pronounced a grand good lot and stated that the Pekin Ducks as a lot could hardly be surpassed.

The Bantam classes were unusually strong, specially the Game and Cochinchina Bantam classes. Judge Parker told us that some of the best Game Bantams that he had ever seen came to this show, specially in Black Reds and Duckwings. The Buff and Black Cochinchina Bantams were full of quality; it would be hard to go ahead of them, and when we come to the Sebrights and Rose Combs must say excellent all along the line. We were quite interested in the Malay Game Bantams—new and beautiful and full of quality. Some very high-quality Partridge Cochinchina and Japanese Bantams were shown. Breeders of these varieties of Bantams seem to overlook the fact that black in the plumage of all white fowls disqualifies; there is some little inclination all along the line to forget these color disqualifications. One of the very finest White Wyandotte pullets in this show had an almost solid black feather in her lower hackle. This brings defeat for the bird and trouble for the judge. All should remember that white in black fowls throws them out, as well as black in white, neither can do much good in the show-room.

The geese and ducks shown were unusually good in quality. Some of the very best in the country were there, so said the judge to us. If size and good color tell the tale he was right, for as we saw them they were full of quality, and the beautiful little Call Ducks, so in contrast with the large Pekin, attracted the eye of all who saw them. A few very elegant geese were shown, also some White Turkeys.

In pet-stock there were rabbits of all kinds, cavies, cats, toy dogs, cage-birds of all kinds, monkeys, and pheasants. All in all the collection was quite complete.

All well-known incubator and supply houses were there in full force, doing their best to please the people with their wares. Incubators, and brooders doing duty, bone cutters going their best, supply and feed men telling of the quality of their stocks, all combined giving the appearance of a busy, oriental outdoor market, so beautiful was the decoration of their booths. The many poultry journals had their tents pitched



GOLDEN PENCILED WYANDOTTE FEMALE.

on the field of battle, doing good work for the cause, and all in all Philadelphia had a great show.

Black Spanish.

Many years ago the Black Spanish was classed as among our utility fowls. No better egg-producer was known. We remember when three of them were kept at home in a corner of the wood-shed. All winter long they had their freedom; when wet and cold they would stay inside and dig in the rubbish; their only food was the scraps from the table; there and alone they lived for about two years and it was my youthful impression that these three hens laid an egg each every day. Of course they did not do so well, but they did keep a sick member of the household fully supplied with eggs to eat fresh from the nest and occasionally a few for other use about the house.

These hens were fashioned after our present type of Minorca. When they were old enough to show white in face they did not have the long, hanging white face of the present type of Spanish. nor did they have such long legs. They withstood the rigors of cold winter blasts and kept on laying eggs. These hens passed into the hands of a poultry fancier who secured a male from Canada and bred a fine lot of fowls from them. This male was the first White-faced Black Spanish we ever saw, and the date was 1865.

From that date to the present we have been interested in this breed, we have watched them advance, as they say, under the guidance of the fancier who has kept building up, till to-day they have them in England on legs that might be called stilts, and hanging white faces from six to eight inches long. The only possible way to protect them from our

cold winters is to keep them in heated houses and protected from the wet and cold. With all this advanced breeding they have held their vigor and laying qualities. We can not but admire the success of the fancier but we think it a mistake to push them to a point where their very lives are made uncomfortable from the excess of appendage of comb, face, and wattles that their neck and long legs must support.

This same fashion of improvement is in vogue to some extent in handling both Leghorns and Minorcas on the other side. In some instances it is necessary to cut off the combs of some of all these that have the most development in that direction, to assure their successful use in the breeding-pen, where they place them in hopes of gaining even more comb on their offspring. We have it from good authority that the combs on some specimens are so heavy that their weight has an injurious effect on the brains of the wearers that stumble about as if crazy. The removing of the comb often cures this, and makes them useful as breeders. These experiences give proof positive that an effort should be put forth to end such needless inclination towards monstrosities.

The Black Spanish fowl might be both beautiful and useful, but as bred at this time they are neither practical nor useful, and the question of beauty is a matter of individual preference. Those who love to go on with the work call them handsome, while others would not have them as a gift. They have never been a favorite in this country. In some localities they were largely kept twenty-five years ago, but like other ornamental fowls they have dwindled away out of sight.

Valley Farm is at Simsbury, Hartford Co., Conn. Stock, Eggs.

NEW YORK

Had a Beautiful Display of High Quality.

Madison Square Garden was the Eden of delight for poultrymen during the show of 1902. The building was beautifully decorated and reminded one of a July celebration in its beauty. The pigeons and bantams had the two side galleries and the poultry the main floor, which was as well filled as comfort would permit. As usual, the poultry journals had the pick of spare room to the right of the main entrance and the balance of the side walls on both sides was given up to incubators and supplies. Nothing like these displays has ever equalled those we have seen this winter, one might imagine the business overdone, but it seems that it has only begun and is like the sewing machine trade—everybody must have one.

The cage-bird display and cats at New York were great features this year. They attracted the attention of the ladies, who came in larger numbers than ever before, and all of whom expressed their delight at the most attractive lot of cats and birds that they have ever seen and we presume will see for many days to come.

The management must be congratulated on their successful management of so good a display, as well as their disposition to do all that is fair and right in every way. They have selected one week earlier for next year so as not to clash with Boston, which is a good thing. If it were not for Chicago week following the present Boston date we might hope to see Boston drop back, but we do not believe the Boston people would take the Chicago dates after the experience of the past. So not much advantage is gained, but it clears the situation and makes things brighter for three good shows in the East.

The attendance at New York was very large and the management has made money, for which they and the fancy are to be congratulated, for this assures better things for next year. Every one likes to go to New York, and when they go they wish to see all their friends there as well as the general public, for in this way only can the best interests to the fancy be served and joy be on all sides. Go where you please there is only one New York with its attractive sights, and there the best of all the world is to be found at a value within the reach of all.

The attractive display of cups at New York was located just next to the booth of *THE FEATHER*, and such quality was there we longed to take them away to our own home where we might enjoy their use in our own household and feel like a king or a Vanderbilt in their possession, but as only one exhibitor can have a single cup the joy of possession was divided among so many that fifty families in place of one have this divided joy we coveted so much.

The sign was hung early in the Garden for all to call at the Captain's office and get their cash due for premiums; a pleasing visit for all the fortunate ones, and the surest sign of success is the desire and ability to pay early and as often as a true due-bill is presented. No show at New York for years has seemed so busy and thrifty, as was this one. All seemed to be doing good business, a fair share of which came to *THE FEATHER* from those who appreciate a thing of beauty and a joy forever.

The Light Brahma cock that won first was by far the best male in the show. We fail to see how it was possible for the judges to pass by No. 10 in this class for a good position. The winner of second was an unusually large, well-colored specimen of great merit. Mr. Hillson had some beauties in the Brahma classes that won some of the honors for him. The winning hens were all a splendid lot for size and all Brahma qualities. First cockerel was fine in size and Brahma type, but he was so very dark in striping that it ran clear out black to the point of hackle and his saddle was striped with black almost as much as is usual with the best Partridge Cochins; while the winner of second was equally as good Brahma type, clear cut in his markings, no running out of the black at point of hackle, and his saddle hanging clear and fine. We can not feel that this was as it should have been; these two might have changed places.

The pullets could not be called as a class a hot one throughout. First and second were beautiful, fine, large, well-made specimens, all the winners good but rather a decline from the other three classes. In Dark Brahmas, Philander Williams had a wonderful string, as did some others. Mr. Williams won two firsts and three seconds in his classes as well as other prizes. It seemed to be the general impression that first and second on Dark Brahmas should have been changed; in fact, it was too plain

to be considered as other than a clerical error.

The Buff Cochins were wonderfully strong classes for quality and number. The whole display far excelled any made even at New York for years. It reminded one of former days when Cochins Alley was the banner spot of the show. Partridge Cochins far ahead of last year in every count and we thought then they had reached the limit. Mr. Mitchell won every prize in the open classes also first pen. Black Cochins were ten in number and a fair lot.

Of White Cochins we must make special mention, for they most certainly outdid any of the classes in the show for advancement in both number and quality. There were thirty-two of them in the open classes. Mr. Anderson, the new exhibitor in these classes, won all but one fourth, and one fifth, with a line of birds that would delight the world to see. He simply walked in with a string of birds that were equal in Cochins quality with any in the show, and swept the deck.

New York had the Barred Plymouth Rocks this year; 148 in open classes and sixteen pens. Bradley Brothers walked in with a string of Barred beauties and won second cock; third, fourth, and fifth hens; all on cockerels but first; all pullets but fifth; and first, second, and fourth pens. This looks as if Lee, Mass., still had some good Plymouth Rocks, and as if Bradley Brothers knew how to raise them. Sound Cleff, Grove Hill, and Harry Lamson did some good work, also, in this line. About one hundred good ones could be seen outside

Valley Farm, White and Barred Rocks. Houdans, Faverolles.



BROWN LEGHORN MALE.

the ribbon line that would grace any breeder's yards with credit.

White Plymouth Rocks were strong classes, the Graves family and Valley Farm did well here. The cock and pullet belonging to Valley Farm were wonderfully good ones, as were several others they had. Buff Plymouth Rocks were very strong classes. Hampton Farm, Riverside Farm, and Dr. Bennett, all did well in these classes. First pen will long be remembered for its quality and beauty, as will the pen of Buff Plymouth Rocks and Buff Wyandottes shown from Riverside Farm. Three such pens are seldom seen. Our friend, Bean, was strong here, also, as he was at Boston.

Silver and Golden Laced Wyandottes were strong and full of merit, not one poor one in these classes, but the object-lesson on Laced Wyandottes was shown in display 3110. They come close to our notion on these varieties as illustrated for the Government at Washington in their bulletin "The Wyandotte Fowl," that should be in the hands of every one who loves fine fowls, as should the Government bulletin on Plymouth Rocks, companion books that are doing more for the American breeds than all else besides. White Wyandottes were simply grand, and the awards were distributed among the fanciers who sent them to the show. Mr. Orr did his work well in these classes and had full praise for some. It is to be wondered where quality will end in these classes, and just how good White Wyandottes can be bred.

In Buff Wyandottes quality came to the front again. Hampton Farm, Riverside Farm, and Mr. Piser had warm times. The cockerel that won first is a real dandy; first cock beautiful, shape rather small; the winning pullet and pen gems. Riverside Farm must have credit for having excellent quality in these Buff fowls, that come year after year and win so many prizes. Hampton



BARRED PLYMOUTH ROCK MALE.

Farm is strong in them, also, this year. Messrs. Bean and Piser had some good ones as well. In Partridge Wyandottes the quality was very fine. The first cockerel was the best of the year. Black Wyandottes were very fine in size, shape, and color.

Langshans, both Black and White, were superior in quality. One could scarcely hope to see better in either of these varieties. The Whites show much advancement on last year in both type, size, and color, as though they had fully determined to gain a position fully the equal of the Blacks.

Orpingtons were all right, and why not when Vass goes to town with his best? He had them this time better than ever, and there were others also. Mrs. Osborne, Frank Gaylor, and many others were there and they were of all kinds and colors, some of them marked quite like Runner Ducks or Spangled Games. Dominiques, Javas, Spanish, and Andalusians were well represented.

White Leghorns were large, strong classes, and the prizes well scattered among a lot of new exhibitors who brought forward a fine line of birds. Brown Leghorns were very strong classes. Here, again, we found Riverside very strong, as were Mr. Wittman and Mr. Burgott and a most wonderful lot were these as were the Buff Leghorns, both Single and Rose Comb. The male birds in the Single Comb were a remarkable lot.

Rose Comb Whites and Browns were strong and beautiful classes, some of the very best we have seen for years being among these. The display-pens of Rose Comb Browns were a marvelous lot for quality and combs. Both Black and White Minorcas were a wonderful lot for size and quality. The class of Whites was the best we have ever seen. Some very good Rose Comb Black Minorcas were shown; these are now bred in both Whites and Blacks of good quality and Minorca type.

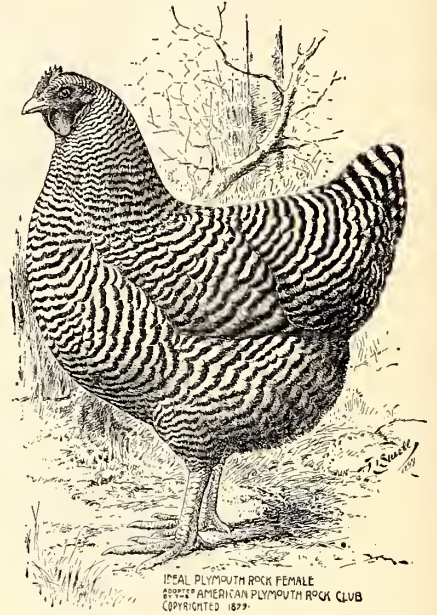
Polish and Hamburgs were well represented as were the Rhode Island Reds of both kinds. Dorkings, a grand lot of very fine birds, Henry Hales, as usual, doing good work in his line. Houdans were a superb lot of winners, the gem that won first being high up in good quality. Pit Games, a hot lot of high quality, fighters that would do credit to a Mexican Pit of the highest order.

Indian Games had the honor of being judged twice and a good lot they were, full of merit and form. It can not be disputed that the hen and pullet were two grand, good ones, no matter who owned them or where they came from, or who judged them, they were sure winners, and good ones at that. All the winners were more than usually high class. The White Indian Games were by far the best class of these ever shown, so very full of merit as to well deserve the title of Indian Games. Standard Games, as usual, were red hot all along the line, no weak spots anywhere in them, quality, quality everywhere.

Pekin Ducks were excellent, as were the Rouens, Cayugas, Runner, and Muscovy, the latter very fine. Aylesbury, Swedish, Blue, and A. O. V. all good, Exmoor Farm doing well.

Game Bantams swarmed in by the hundred, and good at that; Black Reds, Brown Reds, Pyle, Dorkings, Birchen, White, and Black, all wonders of their kind. How they could be better was the wonder on all sides, and when you see twenty-one little cockerels such as they in sight you may rest assured that some good ones will come again next season. Pyle were unusually good, as were the Duckwings and Whites. Cochins Bantams have gone back sadly at New York, nothing of real high quality came

out this year. Just why this should be so we can not tell, but the facts are true just the same. We have never seen such evidence of fixing as was present with two white hens. Bantam Alley so far as Ornamental Bantams



BARRED PLYMOUTH ROCK FEMALE.

go for this year was in bad shape. Sebrights and Rose Combs were better than the Cochins; Japanese and Polish, good. Light Brahma Bantams were an excellent lot. Some fine Indian Game Bantams also Silkies were shown.

Turkeys and geese were a very superior lot in all qualities. Valley Farm was very strong in these classes, and their turkeys show fine health and vigor and the richest color.

One hundred and twenty exhibition-yards were shown and in many of these were some of the best birds in the show as in the Buff Plymouth Rocks, Buff Wyandottes, White Wyandottes, and Houdans. The winning Barred and White Plymouth Rock pens were wonders for elegance as were the Cochins pens. All this grand lot of fine stock spoke in praise of the ability of the breeders of this country.

PIGEONS.

In the display of pigeons were hundreds of the very finest quality. Pouters and Pigmy Pouters, very strong; Carriers and Barbs unusually fine and classes well filled, and Tumblers would have made a show to themselves. Jacobins numbered seventy beautiful specimens. Magpies, eighty-six of the highest quality. A small army of Owls and a splendid lot of Fantails, Frills, and Turbits. The class of Dragons was rather small. Swallows and Archangels were very good. Homers were of high quality and full in numbers.

This display of pigeons at New York was well selected and attracted for their quality, which was pronounced. We have not for many years seen such a lot of Pouters and Carriers together; these were of the highest quality in the pigeon line and it is a pleasure to see them so good in quality for they are most difficult

Valley Farm White Rocks won half the Van firsts. Eggs.

to breed to that standing that grades them so near to perfection.

CATS AND PET STOCK.

The display of cats was unusual. One could hardly hope to see so much advancement in them in a few years, and the value placed on them compels one to consider how strong a hold they have on the people who came in such large numbers to see them.

Rabbits were all breeds and kinds and Cavies of wonderful finish in goodly numbers filled well their department. The large sized Flemish Giant Rabbits, Belgian Hares, and Himalayan Rabbits were the largest classes in these. The Cavies shown were a grand lot many of which have high-sounding names.

Cage-birds of all kinds were shown under the auspices of the New York Ornithological Society, which has done so much for our birds. The members of this society give much time and attention to the cultivation of cage-birds of all kinds and have brought them to the highest excellence.

The displays of all kinds at New York were beautiful and attractive. Trained Homers, fowls of all kinds, and pigeons made up the most of those with some beautiful pheasants, ducks, and geese, all of which lent beauty to the occasion.

The following manufacturers had their wares on display and did a land-office business: Incubators and Brooders: Prairie State Incubator & Brooder Co., Cyphers Incubator & Brooder Co., The Pineland Incubator & Brooder Co., Star Incubator & Brooder Co., Des Moines Incubator & Brooder Co., Cornell Incubator & Brooder Co., A. S. Whitney Brooder Co., and Mapes Brooder Co.

Poultry Supplies: Excelsior Wire & Supply Co., A. S. Whitney, J. H. Slack, Wm. R. Rust & Son, and Empire Co-op-ing Co.

A Young Beginner.

Q. I am going to start in raising poultry for the shows. I want your opinion as to what breed of fowls is easiest to raise perfectly. Also I want you to please recommend the best incubator and brooder to raise about fifty chicks a year. I should like also to have the fowls good layers. I like Barred Plymouth Rocks very well and also Brown and White Leghorns.

As I am a boy of only twelve years I can not pay very high prices. I would like to buy three hens and a cock. How much food do you need for twelve hens? Does it pay to buy a green bone cutter, and what kind is the best? Would you advise an incubator to raise only fifty chicks? How big a house and yard do you need to keep twenty-four fowls in? What is best to feed?—E. B. W., Milton, Mass.

A. You had better select one breed that you would like say, the White Plymouth Rocks, as you say you like Rocks. Find out some one near where you live that has this kind of fowls and go and see them, and buy of him. You will not need either a bone cutter nor an incubator for the few fowls you will keep. Feed the table scraps and cut the meat with a knife. To keep twenty-four old fowls the house should be about 10x12, and the yard as large as you can have it. When you go to see some one who keeps fowls ask them all the questions you can think of; in this way you will learn.

Valley Farm, Simsbury, Conn., now has some bargains. Eggs.

BOSTON'S SEVENTH ANNUAL.

The Largest and Most Complete Display of Poultry, Pigeons, and Pet Stock That Has Ever Been Gathered Into Any Building Other Than Crystal Palace.

The interior of Mechanics Building, Boston, was the most attractive place in New England during the week of the Boston Show. No other show of like proportions has ever been held in this country. When told that the floor-space of this building, which measures equal to two and one-half acres of land, was tested to its full extent to hold the display, you will partially conceive its magnitude.

There were over three thousand entries, single fowls 204, exhibition-yards containing 1020, making a total of 4118 fowls alone. Following this were 2478 pigeons beside pet stock of all kinds, cats, dressed poultry, eggs, and sundry displays of all kinds which runs the total to near 7000 specimens.

The exhibit of rabbits, Belgian hare, cats, cage-birds, other pet-stock, dressed poultry, and eggs, as well as incubators and poultry supplies of all kinds, would make an attractive exhibition of their own. We never have seen so fine a display of incubators and brooders as were at work here turning out chickens, to the great satisfaction of the many thousands of exhibitors that attended this show.

There were 702 individual exhibitors represented in this display, all of whom came in response to continued good treatment in the past, a well-laden premium-list, and in the full knowledge of the value of awards gained at this show. The strength of the Boston Show rests with its loyal clientele that gather from so many States to swell the total entry into the thousands. All of these consider themselves the real owners of the accumulations they bring, because it has been so faithfully returned to them each year in special prizes for their winning birds.

To this have been added a lot of beautiful challenge cups that will be increased each year till every breed and its sub-varieties have one for the best male and the best female of the year. These honored specimens become the champion of the year and the fortunate one holds the cup and the honor for the year, or so long as his fowl can continue to win in the challenge classes. Each year's winning is recognized by a silver medal of beautiful design that is the property of the winner and his emblem of championship for the year. These cups came to the association through the kindness of its members and other citizens located in and about Boston. Others have already expressed a willingness to contribute to this list of cups and the prospects are that by 1903 the number will reach fifty.

The informal banquet given to the visiting fanciers was a most enjoyable affair. This coming together each year strengthens the friendship and makes all more loyal one to the other. Mid song and laughter several pleasant hours were spent to the benefit of all; pleasant social intercourse and not conviviality was in the ascendency, a condition that lends the pleasant as well as profitable tenor to the hour.

The exhibitors who entered their stock

came from all directions and from the following States:—Massachusetts, Rhode Island, Maine, Pennsylvania, New Hampshire, Vermont, New York, New Jersey, Connecticut, Illinois, Missouri and Ohio, and from Canada.

This gathering from near and far shows how interested the breeders of the whole country are in the Boston Show. To them is due the success of this organization that has been able to return to them such a large amount of winnings each year. The quality of the stock shown was excellent throughout, scarcely a poor specimen was to be found in the whole exhibit, and when you stop to consider that there were 1120 single entries in the American classes and 547 bantams, with the usual large entry in the Asiatic and other classes, it is plainly shown that breeders of these varieties become more and more interested each year. The unusually large entry of Games was quite a surprise to everyone. The coops were placed in position and ready to receive the birds at 9 o'clock Monday morning, but before a single bird was put into the coops the management had a large number of men thoroughly clean the inside of every coop with clean, dry cloths so that there might not be any dirt there to soil the clean plumage of the fowls when put into the coops.

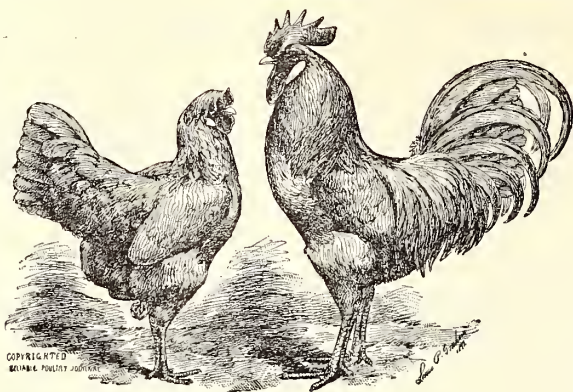
To the Brahmas and Cochins was allotted the stage in the grand hall, while the exhibition-pens were lined through the wide cross aisles in the same hall. In this hall were penned, as far as possible, the single entries, but to accommodate all it was found necessary to put all the pigeons toward the right of the large exhibition-hall, they occupying about one-half of this room, the balance being devoted to single entries, breeding-yards, and display-pens, while the bantams occupied the gallery in the exhibition-hall.

The decorations of the whole building throughout were exquisitely beautiful. Never before did the show-room at Boston appear so handsome as this time.

The first to appear on the scene were the Messrs. Diffenderfer, father and son, with their grand stud of Pigmy Pouters that have won almost every prize offered at the larger shows so far this winter. They brought with them in addition to their Pigmy Pouters a string of bantams to compete for the challenge cup. It took a special car to bring in the contingent from Canada with good-natured "Billy" McNeil in the lead. During the show the exhibitors from Canada held a social reunion for Canadian exhibitors on New England soil.

Among the classes were quite a number of imported birds that had been brought here from the Crystal Palace Show to compete for the challenge cup. Among these were Games, Houdans, Creve Coeurs, La Fleche, Orpingtons, and Game Bantams, and they were truly a grand lot.

As usual the Brahmas and Cochins were very strong and attractive classes. One hundred and seventy-one Light



BUFF PLYMOUTH ROCKS.

Brahmas and sixty-nine Black Langshans made two surprising classes, while in Black Cochins there were forty-seven entries. Other Cochins were not so strong as usual at Boston, but in Buff Cochin Bantams there were forty-four entries; White Cochin Bantams, thirty entries; Black Cochin Bantams, thirty-three entries; Partridge Cochin Bantams, twenty-four entries; and there were seventeen Light Brahma Bantams of good quality shown. This we believe made the largest exhibit of Asiatic fowls and bantams that ever came to Boston.

In the American classes Barred, White, and Buff Plymouth Rocks were unusually strong. The novice classes in Barred Plymouth Rocks had twenty-eight entries, while the novice White Plymouth Rocks had thirty-one. White Wyandottes numbered 169 in the open class and twenty-five pens, while the novice White Wyandottes had fifty-nine entries in the open class, and nine breeding-pens, showing the possibility of these novice classes becoming more popular each year.

Of Buff Wyandottes there were seventy-seven in the open class and seven pens. Also fourteen in the novice class. Partridge Wyandottes numbered seventy-six in the open class and there were two single entries and a breeding-pen of Silver Penciled Wyandottes, also one pen of the new variety called Partridge Plymouth Rocks. In addition to these there were 158 Rhode Island Reds and eighteen exhibition-yards or breeding-pens. Nothing like these entries have ever been seen in the American classes at any of our shows. All admit the superior quality of the classes.

Of all kinds of Games there were 182 entries, and the Leghorn classes were the largest in the history of the Boston Show. There was the usual gathering of Polish, Hamburgs, Dorkings, turkeys, ducks, and geese, as well as the exhibition of pheasants, and ornamental fowls.

The pigeon classes included over four hundred different varieties and kinds, and when you consider that the total number shown was 2478, and it was stated by those present that the quality surpassed anything of the kind they have ever seen, you will have pictured to your mind the style and quality of the Boston Exhibition.

CLASSES DESCRIBED.

The Light Brahmas at Boston were very fine classes, shape and color throughout as well as size were very good, indeed. First and second cock-birds very fine; first hen an easy winner; second and third, while not of the same type were well selected. It seems to

be the opinion of Brahma men that the second cockerel might have been placed first without wronging the birds themselves. The winning pullet and the first cock received the challenge cup awards. Here again there was a diversity of opinion, some of the Brahma men preferring first hen to the winning pullet.

In Buff Cochins the cock and hen that won first were the best two we have met with in several years. All the Buff Cochins shown were excellent specimens. Philander Williams showed four meritorious, while A. P. Ingram, Jr., had two beauties in the novice class. In Partridge Cochins the cock-bird, winner of first and the challenge cup, was an unusually fine specimen, first and second hens were very fine indeed. A difference of opinion arose between the judge and the owner of second hen and second pen. The reason for placing these birds as they were grew out of the fact that the first hen was by far the best in color of neck, general color of plumage, and penciling. The second hen might be called best in shape, but she was considerably off in neck, her main tail-feathers were not completely grown, and she had a tendency to carry her tail a little to one side in the coop. First pullet was a grand, fine bird in size, shape, and color; second so small that she barely went over five pounds in weight. Black Cochins were by far the best lot we have ever seen together. Every one of the White Cochins was a grand specimen, especially the cock-bird which won the challenge cup, also first, second, and third hens. Black and White Langshans were a superb lot.

Barred Plymouth Rocks were one of the largest and very best exhibits that we have ever met with, while in White Plymouth Rocks the gems of creation of the kind were gathered here. The Buff Plymouth Rocks, we presume, will never be excelled as a display, and the Silvers and Goldens were much better than last year.

Nothing like the display of White Wyandottes has ever been seen in a show-room for size, shape, and color; they almost beggared description, while in Black Wyandottes many were shown that were as beautiful in plumage as a Hamburg. The Buff Wyandotte classes attracted considerable attention. The Pan-American hen was here, if possible more beautiful than when shown at Buffalo. The awards were very well placed in these classes, except that we scarcely think the winner of second should have been placed so high. In Partridge Wyandottes the greatest lot we have ever met with were shown. We must admit a little surprise at the very

dark surface-color throughout the classes. We should prefer to select the second cock-bird as the proper type for both shape and color, as we believe the first hen to have been the nearest to a Partridge Cochin in shade of color and marking to any bird in the class. The Silver Penciled Wyandottes shown were very good specimens.

Some very good Black Javas were shown, and as usual at Boston the Rhode Island Reds brought out a most wonderful lot of beautiful birds and a small army of sturdy admirers who were there to attend the meeting of the Club.

Nothing like the display of Dorkings has ever come together, we presume, out of the Crystal Palace Show, and from appearance of the quality and size of the great line of specimens one might guess that England had furnished some of her best to compete with the American-bred bird. The display of Buff Orpingtons almost beggared description as did the Blacks for both size, shape, and color.

The display of Brown Leghorns outranked anything that we have met with in this kind of fowl. The winning hens and pullets were simply grand, as were the male birds in beauty of shape, color, and striping. First and second pullet went to Mr. Wittman on an exquisite pair of birds. Novice Brown Leghorns brought together a wonderfully good class, as did the Rose Comb Browns, first on pullet and second on hens, also first cockerel going to Riverside Farm on some wonders. Single Comb White Leghorns and Rose Comb White Leghorns most elegant specimens. The Single Comb Buff Leghorns were a surprisingly fine class for Leghorn qualities and color. We should called first and second pullets almost as fine as any Leghorn female we have ever met with, and of most beautiful buff color. Black Minorcas, both Single and Rose Comb, were of great quality and merit. We must admit that the Rose Combs were far ahead of what we expected to see in them at this time. Blue Andalusians of better size, shape, and color filled the classes than we thought had been attained in this breed, and the Black Spanish as usual at Boston were wonderful classes. Care and attention had been bestowed by the owner of same upon the breeding of the beautiful Anconas that were shown.

Polish of all kinds and colors and we presume the best that the world can produce were at Boston, and when you stop to consider that the best breeders in the world were interested in the display of Hamburgs you will realize the quality that was shown.

The display of Houdans was a wonderful lot for size, shape, color, and general make-up. In going over the classes with three experts in this line the general opinion was that all the awards were properly placed except that second and third cockerels might have changed places. Quite a number of French fowls were shown, among them a grand lot of Faverolles from Valley Farm.

In Games there was a gathering of numbers and quality such as is seldom exhibited in the United States. They came from all over the United States and Canada and the expert in these birds pronounced them a superior lot. The Indian Games were the best class that has yet come together we presume; White Indian Games, and A. O. V. varieties were well represented. Pit Games were strong in quality and num-

Valley Farm Bronze Turkeys won half the N. Y. Show firsts.

ber, and the largest display of same that we have ever met with.

Pekin Ducks, Rouen Ducks, Muscovy Ducks, Cayuga Ducks, Runner Ducks, Decoy Ducks, Swedish Ducks, and Call Ducks were all represented, as well as every kind of goose recognized in the Standard. The display of turkeys came from Rhode Island and Vermont and the expression was heard on the outside that any one of those shown would be fit for the President's dinner.

Game Bantams of every known kind were shown in large numbers and of good quality. Sebright Bantams, both Silver and Golden, were by far the largest classes that we have met with, while Rose Combs, both White and Black, and Booted Bantams were well represented. Cochon Bantams of all kinds excelled any like exhibit made in America. To win even a seventh in such competition is an honor that everyone so fortunate should be proud of, while those higher up in the game can simply clap their hands in joy to be able to own such elegant specimens. The display of Light Brahma Bantams brought out such a large number of such good quality that even the breeders of large Brahmas visited Bantam Alley to examine them.

The 1020 specimens cooped in the 204 exhibition-yards would have made a grand good show of themselves, and besides these were the beautiful display-pens of all manner and kinds of the feathered tribe, and in addition to these were rabbits, Guinea pigs, Angora goats, and Yorkshire pigs.

2478 pigeons of all kinds were in the display. We must simply acknowledge our inability to cope with such a problem and must refer our many readers to the Boston management, from whom they can purchase a catalogue of the late Boston Show containing a list of all the entries and awards in these classes.

Belgian hares in large numbers and superior quality filled these classes and as usual great interest seem to centre about them while they were being scored. During this work we noticed the old wheel-horse of the poultry interest, Mr. I. K. Felch, among the attentive watchers. In the list we notice Guinea pigs catalogued at prices so large that we wondered if a mistake was not made and that the price referred to a horse or a cow. Cage-birds of all kinds filled up the classes of the pet-stock.

At the Boston Show cats are a great feature, and they have a beautiful, clean, warm room set apart for their comfort where the ladies enjoy themselves for hours at a time gazing upon and fondling these beautiful cats, which are valued from two hundred to fifteen hundred dollars each.

The display of dressed poultry and eggs this year was unusually fine and the room beautifully arranged for caring for same. A cold storage department was set apart for this gathering, which can in this way be kept in a most beautiful condition throughout the whole show.

During the last days of the show the fifty beautiful cups, which are valued at about \$5000, were brought into the hall and displayed in cases, much to the wonder and admiration of every one who saw them. The hall was so crowded during Thursday and Friday that it made it most uncomfortable to move about, and as usual for the Boston Show, the receipts were such as to fully satisfy the expense of the show and promise a good surplus for the special prize department of next year.

Market Quotations.

Feb. 1st, 1902.

Eggs, Live Poultry, and Dressed Poultry.

CHICAGO:

EGGS—Market steady; trade anticipating increased arrivals; holders firm; buyers having to accept sellers' terms; receipts hold up well, demand equal to supply; advanced prices have not checked consumption to any extent; fresh gathered extras "at mark," cases increased, 25c; "loss off," cases returned, 24c; city recanded, fresh eggs, new cases increased, 25c; seconds, \$5@5.40 case.

LIVE POULTRY—Receipts small, feeling firm; live hen turkeys and young gobblers, 10c; old toms, 8c; chix, hens and springs, 10c; roosters, 5½c; ducks, 10c; geese, \$4@10; dressed poultry very firm; receipts small, little of any kind to be had, demand good.

DRESSED POULTRY—Turkeys scarce, demand strong; young gobblers and hen turkeys, 13@13½c; old toms, 10c; culls, 8c; chix, hens and springs, 10½@11c; roosters, 6c; chick ducks, 12@12½c; ordinary, 9c; good geese, 8@9½c; fancy, 10c.

CINCINNATI:

EGGS—Receipts fair, considering cold weather, but demand very light; consumers won't pay the price; no accumulations on hand, though as arrivals clean up quickly; prices advanced to 26½c for strictly fresh candled stock; storage, 20@22c.

POULTRY—Cold and snow checked receipts and prices advanced to highest point this winter; sales of chick springers reported at 13½@14c on Thursday, but in early part of week market averaged 11@11½c; hens on Thursday were 9½@10c; roosters, 5c; turkeys, 13@14c; toms, 10@11½c; ducks, 12c; geese, \$4@8 dozen.

PHILADELPHIA:

EGGS—Market very strong and prices advanced 4½c with light receipts and supplies closely sold up; nearby and Western at mark, 20½c.

LIVE POULTRY—Firm with light receipts and situation generally better, prices advanced; chick stock in good demand; fowls, heavy and fat, 11@11½c; old roosters, 7½; spring chix, 10@11c; ducks, 12@13c; winter chix, 12@16c; geese, 12@13c.

DRESSED POULTRY—Market much firmer; demand good and receipts light; fine fat fowls have ready sale and are in limited supply; good bit of medium sized stock around; chix mostly staggy and dull, but chix soft meat varieties sell well at firm figures; turkeys in light supply, market strong; scarcity of fancy ducks and this kind wanted; fresh killed fowls, 11½@12c for chix heavy, 10½@11c for good to poor, 9@10c for fancy to good; old roosters, 7½c; chix, nearby, fancy, 14c; fancy to good, 12@13c; selected yellow, Ill, large, 13c; other Western dressed poultry, 12@12½c; fancy to good, 11@

11½c; turkeys, fancy nearby, 16c; fancy to good, 13@14c; young hens, 15c; 14@14½c for young gobblers; mixed hens and gobblers, 14@14½c; ducks, cheap to nearby, 14@15c; Western, 12@14c; geese, nearby, 10@11c; Western, 9@10c.

NEW YORK:

EGGS—Firm for fresh; all arrivals well cleaned up at quotations and sometimes a little more; state and Pennsylvania, 28@29c; Western, 28c; Kentucky also 28c; Tennessee and other Southern, 27c; what few cheap refrigerator stock offered is sold at 24@25c.

DRESSED POULTRY—Prices continue high, market firm, with a good grade of stock coming; business, however, is not brisk; fowls, 11c; chix, 11@13c; turkey hens, 15c; young toms, 14c; ducks firm and in good demand; 10@15c; geese, 7@10c.

LIVE POULTRY—Firm conditions prevail in all kinds; receipts this week lighter than usual; chix, 9c; fowls, 11c; old roosters, 7c; turkeys, 10@10½c; ducks, pair, Western, 70@80c; Southern, 50@60c; geese, pair, Western, \$1.25@1.50; Southern, \$1@1.25; live pigeons, pair, 20c.

PITTSBURG:

EGGS—Market still an uncertain quantity; demand is so limited at present that the arrival of a few hundred cases depresses market; weather was cold early in week and a sharp advance was looked for, which, however, did not come, receipts of less than 500 cases preventing any advance; strictly fresh eggs, 27@28c; "at mark," 24@25c; storage, 22@25c.

POULTRY—Poultry market firm; good, solid meat fowls of all kinds in demand; live stock, hens, 10@11c; spring chix, 11@12c; turkeys, 11@12c; ducks, 12c; geese, 10@11c; dressed goods, hens, 12½@13½c; springers, 13@14c; ducks, 15@16c; turkeys, 16@17c; capons, 20@25c.

BUFFALO:

EGGS—Fancy new laid eggs that can be guaranteed wanted at full quotations and yet market is in such condition that liberal receipts would tend to lower values as demand is confined to present wants of buyers; fancy state, 26@27c; general line receipts, 24@25c; Western and Southern fresh, 24c; cold storage, cheap to fancy, 20@22c.

DRESSED POULTRY—Demand just about moves receipts; spring turkeys, fancy, 14c; good to fancy, 12@13c; fancy, 11@11½c; spring chix, good to fancy, 11@11½c; common to fancy, 8@10c; fowls, good to fancy, 9½@10c; common to fancy, 7½@8c; ducks, cheap to fancy, 14½@15c; geese, 10@11c.

LIVE POULTRY—Demand is for fine killing stock; poor stock hard to move; spring turks, cheap to fancy, 12c; good to cheap 10@11c; poor, 8@9c; fowls, fancy large hens, 9½@10c; small, 8½@9c; spring chix, fancy, 10c; small, 8½@9c; old roosters, 6@6½c; spring ducks, 11@13c; geese, 9@9½c.

Valley Farm wins now, not years ago. Stock, Eggs.



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Does the Business Quicker and Better than any other.

So say all who have tried it.
Booklets Free. Agent's Terms for Introduction.
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EDWARD S. SCHMID, 712 12th St. N. W., Washington, D. C. Agent, Wholesale and Retail.



How Many Fowls?

Since scientific eyes have looked over into the poultry-yards there has been a removal of many old ideas and an establishing of new ones. The advance made in the last twenty years has been very satisfactory. There is to-day a deep and growing interest in the care and keeping of pure-bred stock. The professional man takes a great delight in his small flock of well-bred fowls. His visits to them prove a respite from the grinding cares of his professional life. While among them in their quarters—or giving food and fresh water—he is resting his mind from the exacting demands of the public. The rich, clear-tasting, fresh eggs of his own gathering are fifty times better than the "store eggs."

The country homes of the large army of daily commuters now have, more than ever, a flock of fowls to add to the attractiveness of the place. The poultry department is most presentable and well kept. There is also a large number of toilers living on city lots with limitations such as might make a sardine feel crowded a little. Their back yard, they say, is too small to keep fowls and oftentimes it is not large enough for the baby to build his block-house or to enjoy a dig in the ground. But in many crowded lots there are a few delegates from poultrydom and they are a great help in the keeping of a large family.

It is possible for fowls kept in confinement to do better than those that must hunt over acre after acre for their living. In the one case they may receive proper care while in the other they oftentimes do not receive it. Those running at large get a great deal of stuff of all sorts,

and drink that which is the filtration of decayed matter, and all this goes into the egg. The other class receive pure, clean, wholesome food at regular hours and need not run off all the food assimilations. But can a flock of forty fowls be kept on a small city lot? Intensive poultry raising says they can be unless the lot is very small. A space thirty feet deep and forty feet wide can do it. If the person living on the property is the owner there is much in favor of our case, for whatever improvements he makes are made with an idea of remaining. He does not hesitate to do anything that he does very well and like a sensible man he has learned that when you make a bargain with a salesman the best is always the cheapest in the end.

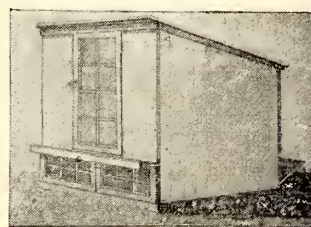
Egg-Shell Material.

Thin-shelled or soft-shelled eggs are the fault of those who care for the fowls. All the lime and mortar on earth will not prevent this occurring if the fowls are not provided with plenty of grit. The shell-forming material must be ground so fine as to make a liquid preparation that gathers and forms about the egg as it passes through what is commonly called the egg-bag. Soft-shelled eggs usually come as spring approaches. After long confinement, if not well provided with grit the supply in the gizzard is all worn out and the work demanded is not thoroughly done. Grit in plenty is of much importance in the whole life of the hen; it is her teeth, her digestion, her every thing in the consumption of her food.

It will not go amiss to mix a little grit and shell in their mash, say, once in two

weeks; not much of it, for it is possible to have too much. Just a little will do. Also keep plenty of grit and shell where they can help themselves whenever they need it. A pile of sand and gravel in each yard all the year around is good for them. Don't trust to clover hay or clover meal for shell-forming material, for the hen can not eat enough of this if she tried to furnish shell for a dozen eggs in six months. Give plenty of grit, lime, mortar, or shell all the time.

Valley Farm White Rocks won at Pan and N. Y.



Seaside Brooder.
Won 2d Prize at Providence, R. I.
\$5.00.

Portable
Camping, Poultry, Bath, Dog and Pet Stock.

Houses
CHEAPEST, BEST

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"It's All Right! It's All Right!"

An Incubator That Is Out of Sight!"



The chickens do not really say it but they feel it, and their owners say it over and over. The

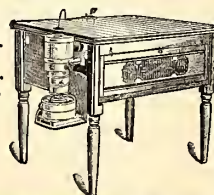
"All Right" Incubators

Sold on 40 Days' Free Trial

are such good machines, such perfect hatchers, so simple in operation, so durable in construction, that we gladly send them to any one on 40 days' free trial. Take off a hatch and then decide whether you want the machine or not.

Isn't that "all right?" We couldn't do it if our machine wasn't all right. Send for book explaining why it does such good work. It's free.

CLAY PHELPS INCUBATOR CO.,
Station 79 Cincinnati, Ohio.



Questions and Answers.

COLOR OF SHANKS AND FEET.

Q. I have taken some half dozen poultry journals, but THE FEATHER is the best arranged of any. I wish to ask two questions. 1. Do White Langshans and White Hamburgs have blue feet? 2. Please give address of breeder of Partridge Wyandottes.—J. M. M., McColl, S. C.

A. White Langshans have slaty-blue shanks and feet that show pink between the scales. White Hamburgs have blue shanks and feet. 2. Elmwood Farm, Weston, N. J., breeds Partridge Wyandottes.

ALL IN NOVEMBER NUMBER.

Q. Please tell me what kind of chicken makes the nicest broilers at one pound, and one and one-half pounds and reach that weight soonest? At what time, and over what period of time, should they be raised for the highest prices? With warm quarters at about what age would the Rocks, Wyandottes, and Leghorns, respectively, reach that weight, with proper food? What would be good food for winter rations? Would THE FEATHER'S "Up-to-date Henhouse," with glass front make a good one for broilers, and would it have to be heated? If so, how could it be done.—A SUBSCRIBER.

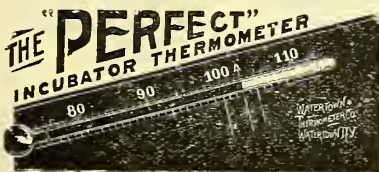
A. Shall refer you to article in THE FEATHER for November, 1901. There you will find all your questions answered in the first article in this issue on how to start a poultry-plant. If you will study this article you will find all the information needed.

PREPARING FOR SHOW.

Q. Will you kindly give me some points on how to prepare chickens for show; how to clean soiled plumage, etc.? If a wash of any kind is used what is it? I have Partridge Cochins.—A. F. D., Brookland, D. C.

A. First of all have the fowls in good health and condition. If necessary to wash them have three tubs of water, one as warm as your hands will bear to work in it, one milk warm, the other cold. Put the fowl in the tub of warm water and with Ivory soap and your hands thoroughly wash every spot of the fowl's feathers, head, and shanks. When thoroughly clean free the feathers from all the soap possible in this tub, then rinse in the one that is milk warm. When you have all the soap out then plunge head and all once or twice in the cold water. Work all the water you can out of the feathers with hands, sponge, and towel. Always rub the right way of the feathers. Dry in a warm room or before the fire.

Valley Farm, Simsbury, Conn., introduced Faverolles.



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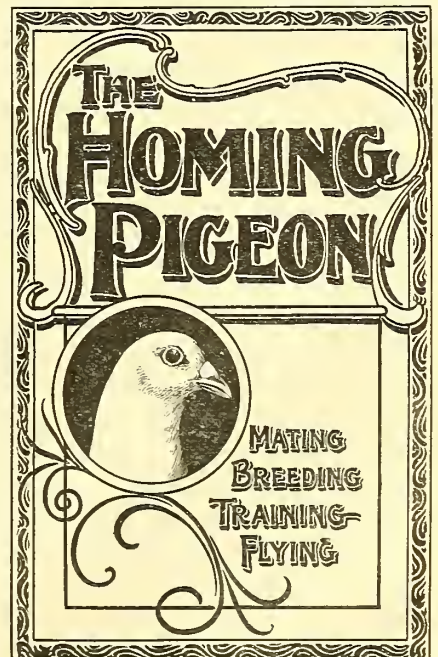
The Latest Book on Homing Pigeons.

The demand for a perfectly reliable and practical book on the "feathered race-horse," has prompted us to publish our new book, "The Homing Pigeon." This book is 16mo in size, printed on excellent paper, and completely illustrated from cover to cover. It is a complete book in every way, and treats thoroughly on the history of the Homing Pigeon, breeding, training, and flying, as well as the many handy and business uses for which these birds may be used. It is fascinating to breed Homing Pigeons, besides being a most practical study. Every detail is told in this book in a clear, concise, and explanatory manner; and the various writers therein have given us a mine of information. The reader is taught all about the selection of good breeders, the breeding of youngsters for racing qualities, training them to the best advantage; also the rules and conditions for flying birds in races, as well as for business purposes. It is a complete book in every way. Lovers of the Homing Pigeon can not well do without a copy of this excellent little book. Sent postpaid for 25 cents, or send 50 cents for one year's subscription to THE FEATHER, and we will make you a present of this book.

GEO. E. HOWARD & CO.,

305 10th St. N. W.,

Washington, D. C.



THE BUSINESS WORLD

As Viewed from the Columns of
The Feather.

PIONEERS IN CUT CLOVER HAY.

We are in receipt of the fine new catalogue of the Harvey Seed Company, of Buffalo, N. Y., and also sample of their cut clover hay, of which they make a specialty. They write of this as follows: "Presume that you are aware that we were the first house to offer cut clover hay to the poultry trade. During the past few years we have improved our facilities for preparing it to quite an extent, so that now our facilities are of the very best. This together with the long experience we have had in catering to the poultry trade, and the choice quality of our hay crop, enables us to furnish poultrymen with cut clover hay that is sweet, pure, cut in proper lengths, and properly screened."

All our readers in need of poultry supplies of the finest grade should write to the Harvey Seed Company, Buffalo, N. Y., and be sure to mention THE FEATHER.

"RABICURE."

Mrs. L. P. Bissell, of Philadelphia, Pa., says: "I had a great deal of sickness and loss in the heat of summer with my hares. I used Rabicure, and for months my hares have been absolutely free from any disease. I use it when I notice their appetite flagging. The effect is wonderful." Rabicure is offered for sale by the Vermont Belgian Hare Co., Lyndonville, Vt. See their ad.

INCREASE IN POULTRY.

Among the hundreds of incubators advertised broadcast throughout the land those manufactured by the George Ertel Company, Quincy, Ill., stand preeminent for volume of product and quality of product.

Any chicken raiser—farmer or poultry fancier—who is not familiar with the advanced theories and successful practice demonstrated in the Ertel incubators must eventually confess himself behind the times.

The George Ertel Company have issued a finely illustrated 178-page booklet descriptive of the various styles and sizes of incubators and brooders that have made the name Ertel famous in the poultry world. This book any one may have who will write his wants to the George Ertel Company.

To those who do not own an Ertel incubator or who have not seen the book, it will be interesting to know that this book tells how a hatch in almost any machine may be increased, and how any brood may be kept in good health, and hundreds of other things every chicken owner should know.

There is also an interesting chapter on raising ducks, and others on building poultry-houses and poultry-yards. The acquaintance with the pleasant business methods of Messrs. George Ertel Company, which will result from application for this book will not be the least interesting experience.

Write to-day to George Ertel Company, Quincy, Ill., and mention THE FEATHER.

TRANSFER OF STOCK.

I have purchased the entire stock of White Wyandottes, known as the "Willowcrest Strain," of Mr. J. E.

White, former manager of the Willowcrest Poultry Yards at this place; and have added some 200 of my best prize-winning White Plymouth Rocks and Buff Wyandottes. I shall continue the business in the "Willowcrest" name and trust to receive its former patronage.

Willowcrest Poultry Yards,
F. W. Corey, Goshen, N. Y.

POULTRY AT ST. LOUIS IN 1903.

During the great International Live Stock Exhibition at Chicago Nov. 30th to Dec. 7th, there was considerable talk of the live stock display to be made at the St. Louis World's Fair in 1903. It was the general opinion that everyone who was at Chicago would be there, and hundreds of others, insuring for St. Louis the greatest live stock exhibition ever held in the world. An appropriation of \$750,000 was asked for, with an assurance of at least \$250,000 more, to be contributed by several States, and a number of different live stock associations, thus making a fund of one million dollars to be devoted entirely to the live stock exhibit. Of this amount, \$60,000 was allotted to the poultry, pigeon and pet-stock department. This, we feel will enable us to put up the largest, finest, and best exhibit in this line that has ever been seen in the world. Entry-fee will be small and premiums large, and we call attention to this matter thus early so that every fancier may know something big will be going on at St. Louis in 1903.

J. A. Leland, Springfield, Ill., Chairman. Henry Steinmesch, St. Louis, Mo., I. K. Felch, Natick, Mass., L. N. Cobbledick, Oakland, Calif. For Pacific Coast Committee on Poultry, Pigeon and Pet Stock, Louisiana Purchase Exposition, St. Louis, 9103.

**Where
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Meal
Goes**



**EGGS
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Bowker's Animal Meal will increase the egg yield of your hens and make your chicks mature early. Strongly indorsed by poultrymen. Enough for 10 hens, 3 months, \$1.00; four times as much, \$2.25. Send for free booklet, "The Egg," and testimonials.

**THE BOWKER COMPANY,
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A Gain of 1,500 Eggs in 7 Weeks.

I find that Bowker's Animal Meal does the work. I have used it since 1896, when I never had hens lay so well as they did that fall. In 1897 I experimented by not feeding it, and gathered about 1,350 eggs from August 14 to October 1. This year I used the Animal Meal again, and for the same seven weeks I gathered over 2,800 eggs, a gain of nearly 1,500.

Trenton, N. J.


E. T. MCGALLIARD.

RABICURE MAKES EVERY HARE A SUCCESS.

Cures Indigestion, Slobbers, Snuffles, Barrenness, Abortion, Rot, and Paralysis. Especially good for breeding Does. Sent postpaid for 50c. Rabbitry size, \$1.

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DON'T WRITE ME...

Unless you want stock as good as the best at reasonable prices. Order early and get your first pick. I have some bargains in early-hatched chicks. Over two thousand birds to select from. White and Barred Plymouth Rocks, R I. Reds, Light Brahmas, and White Wyandottes. Also eggs for setting. Write for full particulars.

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nails.
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thousands of poultrymen.
For samples and circular
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SWAN'S EXTRA HEAVY FELT ROOFING.

The A. F. SWAN CO., 116 Nassau St., New York.

WINNING SEBRIGHTS.

Dr. A. C. Treichler, Elizabethtown, Pa., made a fine showing with his Silver Sebright Bantams at the late Philadelphia Show, winning four firsts, one second, one third, and special on six entries. His ad in our classified columns tells what he has to say regarding his birds.

A LARGE PER CENT.

Through the kindness of Mr. J. H. Henderson, Knoxville, Tenn., one of the leading Single Comb Brown Leghorn breeders of the South, we are enabled to print the following from letters received by him from his customers, which goes to show that southern eggs hatch a very large per cent:

Out of 15 eggs, hatched 14 chicks.
Out of 26 eggs, hatched 24 chicks.
Out of 60 eggs, hatched 51 chicks.
Out of 48 eggs, hatched 48 chicks.
Mr. Henderson's pens this season are made up of strong, vigorous, high-scoring fowls. Parties wishing eggs or fowls will do well to write for his new circular, sent free to all applicants.

AGAIN WINNERS.

H. B. Gregory & Son were again among the winners at the Akron (Ohio) Show, held Jan. 6-11, 1902. They exhibited twenty-four bantams, winning all prizes awarded on Black Cochins

Bantams. Golden Sebrights, first cock, first hen, first and second pullets. Black Tailed Japanese, first cock; first, second, and third hens; first, second, third, and fourth cockerels; and first, second, third, and fourth pullets; also \$15.00 special for ten best Black Tailed Japanese Bantams, and \$10.00 cup for the highest average score on mature male and female and immature male and female. See their ad in classified columns and write them. They guarantee all stock and eggs.

THE PURITAN INCUBATORS AND CHICK FOOD.

We beg to call the special attention of our readers to the advertisement of the Puritan Poultry Farms, Inc., in this issue.

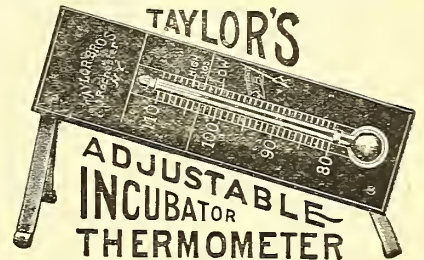
They manufacture and have for sale the "Puritan" Incubator and Brooder and are likewise the proprietors of the world-renowned Puritan Chick Food, a scientifically balanced ration for young chicks.

All other hatching machines have been discarded on the Puritan Farms for the "Puritan" Incubator, which is certainly the very best recommendation possible. The "Puritan" is a strictly up-to-date and excellent machine, built of the very best materials, no expense being spared in its construction. It is novel in a

great many points and differs to quite an extent from most of the other makes now on the market.

The new catalogue of the Puritan Farms is a veritable work of art and contains page upon page of original matter; in fact, is a fine poultry treatise in itself, and tells all about Puritan Chick Food and all Puritan products. It will be sent absolutely free to all our readers who mention THE FEATHER.

This book should be in the hands of all lovers and breeders of poultry and we advise you to send for it to-day.



BY MAIL SAFELY PACKED.
75 CTS. EACH. 3 FOR \$1.50.
TAYLOR BROS. CO.
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You get all the chicks that it is possible to get from
a lot of eggs when you put them into the

PRAIRIE STATE INCUBATOR.

—more than all other incubators combined. Used exclusively by the Department of Agriculture at Washington. Used on the largest and most successful poultry and duck farms in the world.

Still doing business—more of it than ever—at the old stand. **Largest exclusive Incubator Factory in the World.**

Our new catalogue is the most complete, comprehensive and artistic ever issued by any Incubator Company. Over 700 original photographs, taken by our own artist; four original oil paintings (reproduced in colors)—nice for framing—and 50 tinted plates. These cover every phase of the poultry industry. We mail a copy free if you request it. Write for Catalogue No. 40, and address nearest office.

Prairie State Incubator Co., Homer City, Pa.

New York, N. Y., 28 Vesey St.

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Indianapolis, Ind., 150 N. Delaware St.

Chicago, Ill., 86 Randolph St.

Cincinnati, O., 141 W. 6th St.

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Boston, Mass., 47 N. Market St.

Norfolk, Va., 38 Union St.

Minneapolis, Minn., 32 Hennepin Av.

London, N. Eng., Waltham Cross.

Detroit, Mich., 544 Michigan Ave.

Dallas, Texas, 439 Cole Ave.

Louisville, Ky., 400 E. Main St.

Toronto, Ont., Can., 190 Yonge St.

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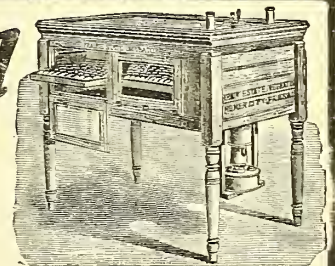
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Buffalo, N. Y., 65 Ellicott St.

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TO AGENTS. We offer the most liberal terms to agents, and our plans and arrangements are so liberal this season that there will be money in acting as a representative of THE FEATHER. We want new agents in every neighborhood in which we are not already represented. It will pay you to write us at once and get our terms. Good profits are to be made from the sale of our publications, and it will pay you well to investigate. Write us for full particulars and free outfit.

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305 10th Street N. W.,

Washington, D. C.

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FEBRUARY, 1902.

Poultry Statistics of New England.

The census figures for four of the New England States have recently been made public and are so interesting that they have been compared with the previous census figures and are now presented to the readers of THE FEATHER. This is the first indication we have of the results of the last census as they apply to the poultry industry; and it shows the changes which have occurred during the ten years in that part of New England in which most attention has been given to poultry culture.

NEW HAMPSHIRE.

	1890.	1900.
Chickens	934,322	870,461
Turkeys.....	10,207	2,386
Geese	2,795	1,289
Ducks.....	17,031	3,803
Value of all poultry.....		\$467,104
Number of eggs produced, dozens....	5,049,150*	7,005,180†
Value of eggs produced.....		\$1,213,703†
Value of poultry raised.....		\$610,696†

MASSACHUSETTS.

	1890.	1900.
Chickens.....	1,623,605	1,625,269
Turkeys.....	5,805	3,018
Geese	8,379	6,389
Ducks.....	70,593	46,017
Value of all poultry.....		\$1,018,119
Number of eggs produced, dozens....	8,931,398*	12,928,630†
Value of eggs produced.....		\$2,571,341†
Value of poultry raised.....		\$1,407,681†

RHODE ISLAND.

	1890.	1900.
Chickens	482,370	500,618
Turkeys.....	11,656	4,604
Geese	16,805	6,335
Ducks.....	13,706	8,957
Value of all poultry.....		\$305,047
Number of eggs produced, dozens....	2,020,714*	3,217,310†
Value of eggs produced.....		\$656,845†
Value of poultry raised.....		\$398,790†

CONNECTICUT.

	1890.	1900.
Chickens	1,075,044	1,073,026
Turkeys.....	30,176	7,717
Geese	5,100	3,530
Ducks.....	31,484	14,100
Value of all poultry.....		\$644,050
Number of eggs produced, dozens....	5,637,590*	7,959,430†
Value of eggs produced.....		\$1,523,319†
Value of poultry raised.....		\$984,207†

* For the year 1889.

† For the year 1899.

These figures show that all kinds of poultry have decreased in numbers in New Hampshire and Connecticut. That in Massachusetts and Rhode Island the chickens have made a very slight increase, but all other kinds of fowls have largely decreased. This failure to increase the stock of poultry in a section where the industry has apparently been so vigorous and active is at first sight surprising and disappointing. A closer study of the figures, however, shows a brighter side to the picture and furnishes material upon which we can sincerely congratulate our New England friends.

In New Hampshire and Connecticut with a reduction of the number of chickens there is a notable increase in the number of eggs produced. A like increase in the egg product is also seen in the case of Massachusetts and Rhode Island. We have computed the number of eggs per head of chickens and the result is shown in the following table:

Table Showing Eggs Produced Per Head of Chickens.

	1889.	1899.
New Hampshire.....	64.8	96.5
Massachusetts.....	66.0	95.4
Rhode Island	50.2	77.0
Connecticut	62.9	89.0

That is, the average yield of eggs in these four New England States has apparently increased 50 per cent in the last ten years. This is very gratifying. It shows that many of the people who have raised poultry in the old slip-shod style have gone out of the business, and that those who have adopted modern methods and improved varieties are successful. The average production at this time is high, and all things considered the improvement is all that could reasonably be expected in the course of a decade. The 200-egg hen is coming along all right.

A report from the Chicago markets reveals the fact that the prevailing prices of turkeys and other dressed poultry the coming season will be exceptionally high. It is said that not more than twenty-five per cent of last season's product is put away in cold storage this year. The high prices of turkeys have held up the whole season, and have been even higher since the holiday trade. The writer says:

There has not been a time in January when choice, dry-picked, dry-packed turkeys could have been bought to put in coolers for less than 11@12c. To-day both young toms and hen-turkeys are worth 13c. dressed. Turkeys never came in better condition than the past month. There will be some fine birds taken out next season. A few parties who were sharp enough to put away some turkeys between Thanksgiving and Christmas at 8½@9c. will simply have a small fortune in their holdings. Immediately succeeding Christmas there were a few days when turkeys were 10c., but outside of that 10½@11c. has been the lowest figures buyers have been able to secure on stock fit to put into coolers. Those who held off looking for lower prices have had to pay higher ones or do without the turkeys.

Roasters and broilers, the same authority writes, have proved to be as profitable a deal as the turkeys. Those speculators who put away their roasters last

Fifty Pens of this Season's Breeding Stock For Sale.

In quantities to suit purchasers. Hundreds of cockerels and pulets after Sept. 15; farm grown, with all wants supplied to produce the finest possible stock. Special prices on trios and breeding-pens; and **REMEMBER**, my stock is line-bred since 1888 for **RESULTS**—32-page descriptive catalogue free. Winners wherever shown—New York, Boston, Chicago, Hagerstown, Cincinnati, Providence, Worcester, Hartford, New Haven, etc.

S. C. White Leghorns, S. C. Black Minorcas, Barred Rocks, White Rocks,
White Wyandottes, Light Brahmas.

ELM POULTRY YARDS, Hartford, Conn.

STATE AGENT FOR THE STAR INCUBATORS.

season at about 7 ½ cents, and broilers around 10 cents, are reaping their reward to-day in the markets, getting 17 cents. Prices are expected to go to 20 cents for broilers and 15 cents or more for roasters. Both live and dressed poultry have been high this fall and winter. All things considered, poultrymen should do well with this year's product and get a goodly sum for their birds against the limited outlook of the cold-storage product.



Our Grand Books.

In this number will be found advertisements of the five grand, practical books which have been published in the interest of poultry and pigeons. The books have had a large sale and they should be in the home of every lover of poultry and pigeons. "The American Fancier's Poultry Book" is an encyclopædia of poultry knowledge, and contains the practical, thorough knowledge needed to make poultry raising a pleasure and profit. There is no better book in the world than "The Diseases of Poultry," and the poultry raiser should know how to prevent diseases as well as cure them. This book tells everything on its subject. "Pocket-Money Poultry" is just the book for anybody, and while it is intended primarily for women it will fit the case of a goodly number of men on the poultry subject. "Money in Squabs" is the only reliable and practical treatise published on the interesting subject of raising squabs for market. It is a money-maker. "The Homing Pigeon," just published, is a grand treatise on breeding, training, and flying Homing Pigeons. It is complete in every way. See the ads about these books and order them without delay.



The March Feather.

The next number of **THE FEATHER** will be one of those editions which are appreciated for a long time afterwards by the reader. The contents will be selected with a view of assisting the practical and fancy poultryman, as well as the little fancier who is jolly along with his few hens for the love of the thing. Indeed, **THE FEATHER'S** articles have long been of the highest practical value, and this fact is attested by the large number of renewals each year. A beautiful color-plate of the Golden Penciled (sometimes called Partridge) Wyandotte male will be on the front cover-page. This is the companion plate to the Silver Laced Wyandotte male on this month's cover. These plates were greatly admired by the veteran breeder, Mr. T. E. Orr, secretary of the American Poultry Association, and we feel that others will be of the same opinion, excepting, perhaps—well, never mind, we will not say it at this time. Mr. T. F. McGrew is preparing an article for this number on "The Egg, its Formation, Fertilization, and Incubation." This article will be one of the best written by this author. There will be other timely and splendid articles in the same number with numerous illustrations of the highest order. Those desiring to get **THE FEATHER** for March should take advantage of our subscription offers without delay, as back numbers can not be had at any price.

AN OPEN LETTER.

Dear Reader:

We know you are greatly interested in the welfare of *The Feather*, and we have appreciated your most generous support year after year by giving you the very cream of poultry literature and poultry illustrations. We do not intend to lessen our efforts in the least, but rather increase them in the years to come. Our aim is to make *The Feather* the best and greatest poultry publication in the world, and we solicit your co-operation in the work.

This season, up to date, is the best we have had since *The Feather* has been published, and we are asking ourselves if we can not, with your help, make it two-fold larger in circulation. We know we can do this if you will contribute your share to the work. Printed on page 155 will be found a subscription blank, and we will ask you to get at least one new subscriber to *The Feather*. Surely you have a friend who is interested enough in poultry to subscribe, if you but ask him.

If you will send us one or more subscriptions to *The Feather* on the blank on page 155 we will make you a present of a beautiful picture, in natural colors, size 12x18 inches, printed on heavy plate paper suitable for framing. It is a charming picture for any poultryman's home, and you can get same by helping us this little bit. Now, let each one try at least to send us one subscription, and we will make *The Feather* the greatest of all poultry publications. Awaiting your generous responses, and wishing you the compliments of the season, we are,

Yours fraternally,

THE PUBLISHERS.

A Complete Outfit

AT GREATLY REDUCED PRICES.

A Grand Chance to Begin the Poultry Business.

In order to introduce more fully our Incubators and Brooders, we propose making a short-time offer of a perfect, self-regulating and guaranteed 60-egg Incubator and a complete Outdoor Brooder

FOR ONLY \$10.

This offer expires March 15, 1902, and no orders will be filled at this low price after this date. Orders should be sent in early, and all orders will be filled in rotation.

These are the same machines that our customers speak so highly about, and there is no disputing the fact but that they are the equal of any hatchers on the market to-day. Remember, we guarantee satisfaction in every particular, so you will make no mistake in buying this outfit.

We have in stock, ready for immediate shipment, all sizes of the Star Incubators and Brooders.

Poultrymen will do well in purchasing their supplies from us. Our line is complete and the best in the market. Send for a copy of our Blue Book. Make all remittances payable to

SOUTHERN POULTRY SUPPLY CO.,

429 11th St. N. W., Washington, D. C.

Classified Advertisements

Fully prepaid advertisements of twenty-five words or less inserted under this heading at the following rates:

One time.....	\$.50
Three times.....	1.00
Six times.....	2.00
One year.....	3.50

READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 2 cents each for one insertion, or 1½ cent each for each insertion when run three times or more. Initials and figures count as single words.

PLYMOUTH ROCKS

"PARALLEL-BAR" ROCKS. Eggs, \$2 per 13; \$8 per 100. Gardner, Thompson, Bradley, and Montauk stock. Illustrated circular. H. T. BROWN, Box 471 B, White Plains, N. Y.

BUFF PLY. ROCKS.—Eggs, \$2 per setting, from the best pen in the South. My prize-winning hens and pullets at Washington, Hamilton, Rockville, and Laurel, mated with a grand cockerel purchased from J. D. Wilson. JOHN H. JANNEY, Brighton, Md.

EXHIBITION BARRED ROCKS. Stock direct from Thompson, Miles, and Gardner. Eggs from my prize-winners, \$2 per 13. E. B. LEEK, Amagansett, L. I., N. Y.

AT ELMIRA, Dec. 1899, and Nov. 1900, on Barred Rocks we won 8 firsts, 7 seconds, and 5 thirds. Choice breeding stock at \$2 up. Eggs, \$2 per setting. KRAFT BROS., Box 536, Hornellsville, N. Y.

BARRED PLYMOUTH ROCKS.—The kind everybody wants, large, vigorous and handsomely barred, yellow legs and grand shape. Hens and pullets that are sure to please, \$1.50 each. Big, vigorous, clear barred cockerels \$3.00 each. WM. H. CYPHERS, Crystal Farm, Washington, N. J.

BARRED PLYMOUTH ROCKS Exclusively for 12 years. Great winter layers. Proper shape, size, and color. Old and young stock at fair prices. Satisfaction guaranteed. F. S. WEINHOLD, Denver, Pa.

STANDARD PLYMOUTH ROCKS and Single Comb White Leghorns, \$1 to \$2 each; cockerels, \$2. Eggs in season, 15 for \$1. O. P. TOOMBS, Schenectady, N. Y.

BARRED ROCK EGGS from the prize-winning pens of Leffel and Gibson for sale; also Single Comb Brown Leghorn eggs. Write me for prices. E. P. FRALEY, Herdshot, O.

BARRED ROCKS EXCLUSIVELY. (Ring'et strain). Birds of our breeding the past season won at Cortland, Syracuse, Dayton, Fall River, and West Brookfield. 50 one-year-old breeding hens. 400 choice exhibition and breeding pullets and cockerels at right prices. We guarantee satisfaction. H. E. KIPP, Red-Hook-on-Hudson, N. Y.

SPEAK QUICK.—MEADOW FARM, Moreland, N. Y., specialty breeders, White Rocks and White Leghorns; offer May-hatched cockerels and pullets at \$1 each.

WONN'S NUGGET BUFF ROCKS. \$2 buys elegant cockerels, brothers to cockerel winning first and two specials at late Elmira Show. MILTON W. WONN, Davis, W. Va.

GAMBRILL'S WHITE P. ROCKS. 2d cock 2d hen, 1st and 2d cockerels, 1st and 2d pullets at Frederick, Md., 1901. Splendid cockerels \$2 and \$3 each. J. H. GAMBRILL, JR., Fred erick, Md.

NOYES' BUFF ROCKS win wherever shown. No more eggs. Stock for sale at bargain. Address, P. W. NOYES, Quaker Hill, Conn.

LARGE WHITE PLYMOUTH ROCKS, Hawkins-Kulp strain. Heavy layers; farm raised. Ideal trap-nests used. Eggs, \$1 per 15; \$5 per 100. Orders booked now. FRANK HARVEY, Box 9, Lansdowne, Md.

200 FINE BUFF ROCK cockerels and pullets at a bargain. Farm raised; spring running water. Write now. SPRING RUN POULTRY FARM, Washington, N. J.

BARRED PLYMOUTH ROCKS. Hawkins' and Thompson's strains. Fine exhibition, cockerels and pullets for sale; also yearlings, and cocks at a bargain. Eggs in season. Address, C. S. JENSEN, 45 German St., Dover, N. J.

BUFF PLYMOUTH ROCKS Exclusively. Do you want eggs for hatching from great egg producers? If so, write me. \$2 per 15; \$3 per 30. ARTHUR H. BOLTON, Ashuelot, N. H.

500 BUFF, BARRED, WHITE PLYMOUTH Rocks, Light Brahmas. Cockerels, hens, pullets, \$2 to \$3. Eggs, 15, \$1; 100, \$5. Write wants. MILTON BROWN, Middleboro, Mass.

MT. PLEasant POULTRY YARDS.—Pure White Plymouth Rocks and White Leghorns. A No. 1 stock. Eggs, \$1.50 per 15. S. C. MAC DONALD, Oxford, Pa.

WHITE PLYMOUTH ROCKS Exclusively. Fine cockerels, \$1. Eggs, \$1 per 15. Pekin Duck eggs, \$1 per 13. W. B. EHMKE, Box 207, North East, Pa.

WHITE P. ROCKS, 1st cock, 1st hen, 2d and 3d cockerels, and 3d pullet, at Washington, D. C. All firsts at Interstate Fair, Trenton. Fine young stock for sale. Eggs in season. C. C. BURROUGH, Clayton, N. J.

BARRED ROCKS. Hawkins' "Royal Blue" strain direct. Eggs, \$1 per 15; \$5 per 100. Bronze Turkeys, 45-lb. tom, 9 eggs, \$2. Catalogue. ELMER GIMLIN, Rosemond, Ill.

BUFF PLYMOUTH ROCKS.—Have extra fine breeding cockerels for sale, \$1 to \$5 each. All farm range. Eggs for hatching, \$1 per 13. GEO. B. YERGER, Sanatoga, Pa.

B. P. ROCK cockerels and pullets of Latham's breeding and M. B. Turkeys, best breeding at reasonable prices. JOHN B. TRICE, Summitville, Madison Co., Ind.

BARRED ROCKS AND RHODE ISLAND Reds. Eggs for hatching after February 1st. Bradley Bros.' Rocks. Reds won firsts at Queens and Suffolk Co. Fairs. Write for prices. F. H. WELLS, Deer Park, Long Island.

G BRADLEY COOK, Lewisburg, Pa. Buff P. Rocks Specialist. Up-to-date stock. Fine ck's for sale. Satisfaction or money returned. Eggs, \$2 per 13.

WELLS' BARRED PLYMOUTH ROCKS.—Five grand yards containing many prize-winners. Male line direct from Bradley Bros. Eggs, \$1 per 13, \$2 per 30. W. J. WELLS, St. Peters, Chester Co., Pa.

H W. BUNK, Germantown, N. Y. Barred and White Plymouth Rocks. Winners Philadelphia, Johnstown, Poughkeepsie. Choice stock for sale. Eggs, \$2 per 15. Incubator eggs, \$4 per 100.

EGGS FROM EXHIBITION BARRED PLYMOUTH ROCKS, \$2 per 13. Stamp for Catalogue. C. H. HELME, Locust Grove Poultry Yards, Miller Place, Suffolk Co., N. Y.

BARRED ROCKS EXCLUSIVELY.—Bradley Bros.' strain. Large, heavy bone, evenly barred. Breeding stock score 91½ to 92½. Eggs from best pens, \$1.50 per 15, \$2.50 per 30, \$3 per 45, \$6 per 100. J. L. BARBER, Kirkman, Iowa.

FARM-RAISED BARRED P. ROCKS exclusively for 28 years. The kind you want; very handsomely barred; yellow legs; large size; a great laying strain. Eggs for sale, \$2 per 15; after Feb. 1st, incubator eggs \$1 per 100. EDWIN JOHNSON, Dolington, Buck Co., Pa.

BUFF ROCKS EXCLUSIVELY, not R. I. Reds. Line bred 8 years; heavy layers. Eggs, \$1 per 13; \$3 per 50. A. A. GROFF, Route 2, Telford, Pa.

WHITE ROCKS.—Winners wherever shown. Write your wants to ED. L. DOUGLASS, 453 W. Center St., Akron, O. Eggs and stock in season and guaranteed. Mention this paper.

\$1 PER SETTING.—Barred Plymouth Rocks. Leffel's strain. Blue-black barring. Standard shape and size. White Wyandotte cockerels, \$1.00 each. DIAMOND SPRING POULTRY FARM, Denville, N. J.

BUFF AND BARRED ROCKS.—Fine color. Good shape, Superior layers. Suit both farmer and fancier. Eggs \$1 a setting. F. L. ARNOLD, Avoca, N. Y.

THE BEST always the cheapest.—Barred, Buff and White Plymouth Rock eggs \$1 per 15. Fresh and fertile. G. M. RAFFENSPERGER, Route 8, Gettysburg, Pa.

BUFF PLYMOUTH ROCKS.—I have as good stock as any breeder in the country. My show record proves it. Eggs for hatching, \$1 per setting; \$1.75 for 2 settings. JAMES H. CORWITH, Water Mill, Suffolk Co., N. Y.

WHITE PLYMOUTH ROCKS. First prize State Poultry Show, 1901. Eggs reasonable; circulars free. I. SCHOTT, New Pittsburg, Ohio.

WHITE AND BUFF ROCKS, S. C. W. Leghorns. Choice matings. Eggs by 100 a specialty. Descriptive catalogue for stamp. KURTZ & SONS, Sanatoga, Pa.

BARRED PLYMOUTH ROCK EGGS for sale. From pure-bred stock. The cocks in my pens are from Bradley Bros. THE CREST, Red Hill, Va.

WHITE PLYMOUTH ROCKS \$5 per trio. They are fine, large birds. Have yellow legs and bay eyes. The kind that lay. Sold on approval. C. M. BARTLETT, Agnewville, Va.

FINE BUFF PLYMOUTH ROCKS.—Hawkins' strain. The kind that win the prizes and lay the eggs. A fine booklet free. J. G. STAUFFER, Palmyra, Pa.

BARRED PLYMOUTH ROCKS from E. B. Thompson's, Bradley Bros., and C. H. Latham's noted strains. Eggs for sale, \$1 per 13. WALTER A. COLLINS, Penn's Manor, Pa.

BUY CHICKS, NOT EGGS. Utility strain White Plymouth Rocks, \$3 per doz.; \$20 per 100. EDWIN J. MICHENER, Carversville, Bucks Co., Pa.

BARRED ROCKS, E. B. Thompson strain. My breeding-pens are better than ever, and can furnish eggs for hatching from winners at \$1.50 per 15; \$2.50 per 30. For incubator use, \$5 per 100. Satisfaction always guaranteed. H. E. KIPP, Red-Hook-on-Hudson, N. Y.

EXHIBITION BUFF ROCKS that are buff to the skin. Not a black feather in a bird in my pens. Eggs, \$2 per setting. Satisfaction guaranteed. D. C. SPIENBURGH, Hunter, N. Y.

LEGHORNS

50^c. per doz.; \$3.50 per 100—Wyckoff strain, White Leghorn eggs. New illustrated photo circular free. New plans, new methods. BISHOP'S POULTRY FARM, Box 38, Cheshire, Conn.

PRIZE-WINNING S. C. Brown Leghorns. 10 prizes on 5 entries at Rochester, 1901. Three 1sts, four 5ths, and five specials. Fine stock score into the 90's for sale cheap. Eggs, \$1 per setting. FRANK G. RICE, 9 West Avenue, Danville, N. Y.

S. C. BUFF AND WHITE LEGHORNS. Some very fine cockerels for sale \$1 to \$5 each. Eggs in season, \$1 per 13; \$2 per 30. PINE GROVE POULTRY YARDS, Jay, Essex Co., N. Y.

MY SPECIALTIES are Single Comb White Leghorns and Buff Plymouth Rocks. Cockerels now ready. Good stock and reasonable prices is my motto. Write. T. D. SCHOFIELD, Woodstock, N. H.

SINGLE COMB BROWN LEGHORNS. Winning 1900: Hagerstown, Rockville, Laurel, Md.; Hamilton, Va. 7 firsts, 7 seconds, 7 thirds, 4 fourths. Grand Leghorn Silver Cup at Hamilton for best display. Eggs, \$2 per 15; \$3 per 45. Stock for sale. BERWYN POULTRY ASSOCIATION, J. Fred. Keefauver, Sec'y, Berwyn, Md.

ROSE AND SINGLE COMB WHITE AND Brown Leghorns, Light and Dark Brahmas, Buff Rocks, White Wyandottes. Beagle Hounds. F. S. WHITMORE, Addison, N. Y.

SILVER SPRAY POULTRY FARM.—Breeder of S. C. White Leghorns and White Wyandottes. Eggs and stock for sale in season. Eggs, \$2 per 15; \$3.50 per 30. Satisfaction guaranteed. JOHN M. YERGER, Gilbertsville, Pa.

GAMBRILL'S S. C. BROWN LEGHORN cockerels are bargains at \$1 and \$2 each (no females.) J. H. GAMBRILL, JR., Frederick, Md.

GAMBRILL'S S. C. WHITE LEGHORNS. 1st and 2d cocks, 2d hen, 2d cockerel, 1st and 2d pullets at Frederick, Md., 1901. Cockerels, \$1 and \$2 each. J. H. GAMBRILL, JR., Frederick, Md.

KEYSTONE POULTRY FARM.—Rose and Single Comb White Leghorns. Won 1st on cockerel at Reading; 1st and 2d on cockerels at Sanatoga. My customers are winning at shows wherever shown. Eggs and stock for sale at all times. Extra fine cockerels, pullets, and hens at \$1 each. Eggs, \$1 per 15; \$5 per 100. A. C. NESTER, Pottstown, Pa.

F. W. TAYLOR, Hanover, Md., has White Leghorn eggs from stock which won 5 prizes on 5 entries at Washington in November last, \$5 per 13; \$6 per 100.

NOW IS YOUR CHANCE to get eggs from our prize-winning stock of S. C. White Leghorns; \$1 per 13. Orders booked in advance. DUNLAP BROS., Jamaica, N. Y.

BUFF LEGHORN and ROCK COCKERELS.—A few choice specimens of each at reasonable prices. Write, CARL W. SMITH, Newton Falls, Ohio.

GROVE HILL P. YARD'S "BRIGHT'S," the greatest prize-winning strain S. C. Br. Leghorns. Cockerels head all my breeding-pens. Prize-winner in Pen 1. Eggs, \$1 per 15; \$5 per 100. Stock, for sale. REV. D. McCULLOCH, "Oldfields," Glencoe P. O., Balto. Co., Md.

R. C. BROWN LEGHORN cockerels and pullets, just beginning to lay, for sale. W. C. VALENTINE, 524 Fulton St., Jamaica, L. I., N. Y.

F. W. TAYLOR, Hanover, Md., offers eggs from the best strains of Brown Leghorns, heavy layers, at \$5 per 100; \$1 per 15.

S. C. WHITE LEGHORNS A SPECIALTY.—Eggs from my best pens \$1.50 per 13. Orders booked now. Fertility guaranteed. W. T. GOULD, So. Kortright, New York.

S. C. BUFF AND WHITE LEGHORNS. A few choice cockerels for sale, \$1 to \$5 each. Pullets 75c. to \$1 each. Also some fine yearling hens and cock; all pure bred; Arnold and Wilcox strains; farm raised. Eggs in season, \$1 for 13; \$2 for 30; \$5 for 100. Write me what you want. PINE GROVE POULTRY YARDS, Jay, Essex Co., N. Y.

SINGLE COMB BROWN LEGHORNS.—Kulp-Dorsey strain. Heavy layers; farm raised. Ideal trap-nests used. Eggs, \$1 per 15; \$5 per 100. Orders booked now. 60-egg Cyphers Incubator, \$7. FRANK HARVEY, Box 9, Lansdowne, Md.

HASSLER'S BUFF LEGHORNS AND BUFF ROCKS.—Cornell, Arnold, Leaman, Brown-Nugget strains. Eggs \$1.50 and \$2 per 16. White Leghorns, best strains, \$1 per 15. E. S. HASSLER, Wernersville, Pa.

BRIGHT'S (GROVE HILL) STRAIN.—Single Comb Brown Leghorns. Winners at Norfolk, Va., 1900 and 1901. Prices reasonable. Satisfaction guaranteed. Address JAS. A. DAVIS, Portsmouth, Va.

BUFF LEGHORNS.—Large, vigorous, extra layers. Won first pen, first pullet Lewiston. Eggs \$2 per setting. E. T. PERKINS, R. F. D., Kernebunkport, Maine.

SNOW WHITE POULTRY YARDS, Box 13, Manheim, Pa.—S. C. W. Leghorns exclusively. Orders booked now for eggs, \$2 per setting, from prize-winning strain.

LEGHORN POULTRY YARDS have for sale a limited number of Single-Comb Brown and White Leghorns, pullets and roosters. Best layers known. Price \$1 to \$1.50 each. Eggs in season at \$1 for 16 or \$5 for 100. Satisfaction guaranteed. Address A. T. MATTHEWS, Box 36, Parksley, Va.

SINGLE-COMB WHITE, BROWN BUFF Leghorns; White Plymouth Rocks. Eggs in season, \$1.50 per 15; \$4 per 50. A. G. SNYDER, Boonton, Morris Co., N. J., Box 394.

BROWN LEGHORNS FOR SALE at 60c. TO \$1 each. Eggs in season cheap. Address J. M. WHITE, New House, N. C.

SUCCESS POULTRY YARDS.—Rose Comb Brown Leghorns. Kulp's 242-egg strain. The world's best. Farm raised. Fifteen eggs \$1. Miss ELLA L. WALTMAN, Laddsburg, Pa.

FOR SALE.—Zwick's Rose Comb Buff Leghorns. Won 9 prizes at the Pan-American. 4 breeding-yards, old and young, must go at once. Send for circular. F. S. ZWICK, Box 676, W. Seymour, Conn.

SINGLE COMB WHITE LEGHORNS. 1901.—At the great Elmira Poultry Show, Dec. 17th to 20th, won five prizes on six entries in competition with best birds in New York State, scoring from 91 to 95. Eggs per setting, \$1.50. MICHAEL O'CONNOR, Waterloo, N. Y.

BRED-TO-LAY S. C. WHITE LEGHORNS.—Ten breeding-pens, bred by ourselves, carefully mated, headed by finest cockerels we can find. All pronounced by a noted poultry expert and lecturer as being "beyond criticism." A limited number of settings of eggs at \$1 for 15 or \$5 for 100. Send us your order in time. Good cockerels \$2 to \$5. ORCHARD GROVE POULTRY PLANT, The WILL. E. ADAIR CO., Proprietors, Cohocton, N. Y.

SINGLE COMB LEGHORNS.—Buff, White, Brown and Black of the finest type. Choice stock. \$1 each. Eggs \$1 per 15. H. W. MORGAN, Ashtabula, O.

ROSE COMB BROWN LEGHORNS. Stock and eggs for sale. Prize-winning stock. P. KYLE, Kyle Institute, Flushing, L. I.

\$1 PER SETTING—SINGLE COMB BROWN Leghorns. Bright's strain. Fine Leghorn cockerels \$1.50. Also White Wyandotte cockerels \$1.50. DIAMOND SPRING POULTRY FARM, Denville, N. J.

SILVER SPRAY POULTRY FARM.—Breeder of S. C. White Leghorns. Eggs \$2 per 15; \$3.50 per 30. Satisfaction guaranteed. JOHN M. YERGER, Gilbertsville, Pa.

LARGE, VIGOROUS, EXTRA LAYERS. Single Comb White Leghorns (Wyckoff strain). Eggs from prize-winning matings, \$1 per 15; \$3 per 50. MRS. ARTHUR W. NUNAN, Cape Porpoise, Maine.

FLOYD TABOR, Worcester, New York. Tabor's 200-egg strain Rose Comb Brown Leghorns are the greatest winter egg-producers known. Eggs and stock in season.

WYANDOTTES

WHERE DO YOU BUY YOUR Stay-White Wyandotte eggs for hatching? Why, at Shoemaker's, of course! He guarantees satisfaction, and ships you eggs that test 75 to 90 per cent fertile. He answers your correspondence promptly. He is breeding from extra fine pens this season. Eggs, \$2 per 15; eggs for incubators, \$5 per 100. W. E. SHOEMAKER, Laceyville, Pa.

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WHITE WYANDOTTES.—The whitest kind, good yellow legs and heavy layers. A few good breeding hens and pullets to spare at \$2 each. Big, strong cockerels \$3 each. They are sure to please. Scotch Collie puppies from registered stock \$5 each. WM. H. CYPHERS, Crystal Farms, Washington, N. J.

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GAMBRILL'S WHITE WYANDOTTES.—1st cock, 1st and 2d hens, 1st and 2d cockerels, 1st and 2d pullets at Frederick, Md., 1901. (Duston strain) cockerels, \$2 to \$3 each. Satisfaction guaranteed. J. H. GAMBRILL, JR., Frederick, Md.

WHITE WYANDOTTES.—191-egg strain. Eggs for hatching, \$1 per 15; \$4 per 100. Satisfaction guaranteed. E. O. SCHAAF, Box 121, Woodbury, N. J.

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Finest quality. Unsurpassed for utility
Eggs, \$2 per 13; \$5 per 40. Utility matings, \$
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DUSTON STOCK (exclusively) in my breeding-
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BLACK MINORCAS (Northup and Trethaway
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Also Pigeons, Pekin Ducks, and Belgian Hares.
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Hardy stock that will be sure to please, for sale,
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PEKIN DUCK EGGS FOR SALE.—From pure-bred ducks. Pecunia strain. Birds weigh as high as 12 pounds. THE CREST, Red Hill, Va.

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WHITE HOLLAND TURKEYS, bred from the winners at Madison Square Garden, A fine lot of yearling birds for sale; also hundreds of young birds that have the large bone you need to improve your flock, some choice exhibition birds including the 2d old tom, 1st and 3d-prize young toms at Madison Square Garden, 1901. A. J. KREUTTER, Fayette, N. Y.

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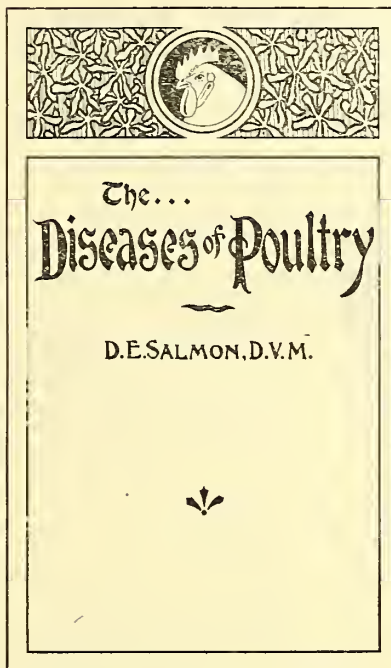
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2. Trio White Wyandottes.
3. Pair White Wyandottes.
4. White Wyandotte Male.
5. White Wyandotte Female.
6. Buff Wyandotte Male.
7. Buff Wyandotte Female.
8. Silver Laced Wyandotte Male.
9. Silver Laced Wyandotte Female.
10. Golden Laced Wyandotte Male.
11. Golden Laced Wyandotte Female.
12. Partridge Wyandotte Male.
13. Partridge Wyandotte Female.
14. Barred Plymouth Rock Male.
15. Barred Plymouth Rock Female.
16. Buff Plymouth Rock Male.
17. Buff Plymouth Rock Female.
18. White Plymouth Rock Male.
19. White Plymouth Rock Female.
20. Black Minorca Male.
21. Black Minorca Female.
22. Black Langshan Male.

Half-tone Pictures.

23. Barred Plymouth Rock Male.
24. Pair Black Langshans.
25. Pair Buff Leghorns.
26. S. C. Brown Leghorn Male.
27. Pair Silver Spangled Hamburgs.
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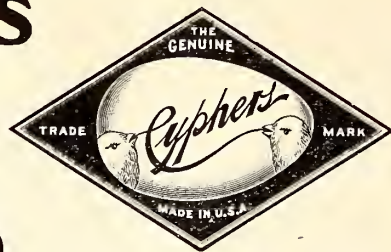
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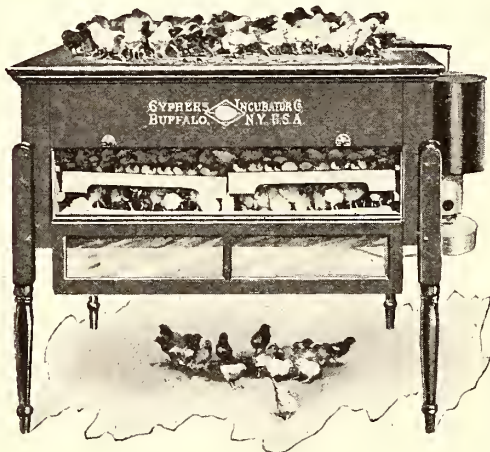
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Imitation is said to be the sincerest flattery. In this country, where the newly discovered principles embodied in the **Cyphers Non-Moisture, Self-Ventilating Incubators** are covered by United States patents, our imitators dare only claim that their old-style machines are like the Cyphers; the law will not permit them to do more than this. So that our trade and friends in foreign countries may be protected against "pirated" imitations, we have taken out in each country a registered **TRADE MARK**, as shown herewith, in order that they may know whether or not they are buying

The Genuine Cyphers made in the U. S. A.

Under the personal supervision of Mr. Chas. A. Cyphers, the inventor of the Cyphers patent diaphragm, non-moisture, self-ventilating incubator, and now president of the Cyphers Incubator Company. We make no idle boast when we say that the "sun never sets" on the good work being done by the Cyphers. **READ THE EVIDENCE**, merely brief extracts from a few sample letters of endorsement received by us from users of the Cyphers who dwell in foreign lands:



ENGLAND—"I am well pleased with your machines recently received. Please ship me four No. 3 and one No. 2 Cyphers incubators."—J. E. BAINES, Willsboro, near Ashford, Kent.

GERMANY—"Your portable incubators and brooders are indeed the best in the world. I have for long years past experimented with all makes of Europe, but your system, that of diffusing, is without a shadow of a doubt the most desirable and best working."—CREMAT, Cr. Lichterfelde, Chaussee Str., Nr. 9 and 10.

NETHERLANDS—"The four incubators and three Style A brooders you shipped to me arrived safely and in very good order, and have given satisfactory results."—J. W. PLATEN, Steenderen.

HOLLAND—"I have found the Cyphers incubator to be everything the inventor claims for it. It gives me pleasure to strongly recommend this most successful hatcher. I inclose two photos of a Buff Laced Wyandotte hen, six months old. A Cyphers incubator brought out this gem."—H. M. J. VAN NIBS, Utrecht.

FRANCE—"The machine was in operation for ten consecutive months, from November, 1900, to September, 1901, in very wet and very dry weather, without causing us any trouble with the moisture or ventilation, and hatching 80 to 90 per cent of the fresh eggs. We think the Cyphers is a strictly business machine, not one built only for looks. It is far superior to those manufactured here."—E. OSTERLOFF, Peron, Ain.

AUSTRALIA—"Have given your 120-egg incubator two trials, and am well satisfied with it. No sane man will bother with the moisture problem any more when he can get a machine to do it for him. I drowned more chicks in other makes of incubators last year than I got out of them."—ISAAC EVANS, Medowle, N. S. W.

NEW ZEALAND—"After the first two hatches, which exceeded 80 per cent, I have not kept the percentage of chicks hatched, but have found that every properly fertilized egg brings forth a robust chicken. The chickens in the eggs that the Cyphers won't hatch had better not see the light."—ROBERT ORR, Lower Hutt.

TASMANIA—"Have just returned from Victoria, where I saw a few of the Cyphers at work, and I want one for myself. At the present time there is no machine here which gives satisfaction. I, myself, have five different makes thrown to one side, using hens only."—J. W. BOATWRIGHT, 33 Bathurst St., Launceston.

SOUTH AFRICA—"The Cyphers incubator has given very great satisfaction. Being a hot-air incubator I was rather dubious about it, but now I have tried it I will never again use a hot-water machine. I have used several makes of incubators, but never had the success I have had with this one. The moistening of the eggs has now been proved to be a farce."—GEO. MACGOWAN, Pietermaritzburg, Natal.

ARGENTINE REPUBLIC, S. A.—"I am perfectly satisfied with the work of the Cyphers incubators I bought of your company."—JUAN CASSELS, Bella Vista, F. C. Pacifico, Buenos Aires.

BRAZIL, S. A.—"It may interest you to know that the 60-egg incubator I bought from you has given every satisfaction."—C. SCHWARTZ DRYOR, Pernambuco.

PORTO RICO—"We are using successfully a No. 3 Cyphers and one outdoor brooder, and expect to install another one of your machines shortly."—E. W. WILSON, Rio Piedad.

MEXICO—"I beg to say that yours is, so far as I know, the best incubator. The one I bought from you was used six times during last season with perfect success."—SALVADOR GUTIERREZ, Cuernavaca.

The foregoing are sample endorsements from the many persons in foreign countries now using the Cyphers incubators with uniform success. Remember that the Cyphers is used on **twenty-six Government Experiment Stations** located in the United States, Canada, Australia, and New Zealand. **Solely on the evidence**, we claim that the Cyphers non-moisture, self-ventilating incubator is now "the standard hatcher of the world." They are sold under **positive agreement** that they will do satisfactory work in the hands of every purchaser who will give them a fair trial, or they can be returned and the price paid will be refunded. Illustrated descriptive 16-page circulars, English, German, or Spanish, **FREE ON REQUEST**. Complete Catalogue and Poultryman's Guide, 180 pages, 8 1/2 inches, for **10 CENTS** in stamps **FOR POSTAGE**. Ask for Book No. 6 and address our nearest office.

Cyphers Incubator Co.,

BUFFALO, N. Y.,
Cor. Court and Wilkeson Sts.

CHICAGO, ILL.,
325 Dearborn St.

BOSTON, MASS.,
34 Merchants Row.

NEW YORK CITY, N. Y.,
8 Park Place.

WE BREED

Buff Leghorns, Buff Cochins, Buff Orpingtons,
S. C. Brown Leghorns, Mottled Anconas,
White Plymouth Rocks, White
Wyandottes, R. I. Reds, Buff
Ply. Rocks, Blk. Minorcas, and Light Brahmas.

BERWYN POULTRY ASS'N.

J. FRED. KEEFAUVER, Sec'y,
Box 215, Berwyn, Md.

WE WON

46 Firsts, 44 Seconds, 38 Minor Prizes, and 11 Specials, in 1900 and 1901, at Hagerstown, Rockville, Hamilton, Va., and York, Pa.
Eggs, \$2 for 15; \$5 for 45.
For stock or other information address the Sec'y.

IT'S UP TO YOU..

LINE-BRED LAYERS.

BIG REDUCTION ON EGGS.

Anconas, imported matings, eggs, \$3 per 15; \$5 per 30.
S. C. B. Minorcas, \$1 per 15 eggs.
S. C. Brown Leghorns, \$1 per 15 eggs.
S. C. Buff Leghorns, \$1.25 per 15 eggs.
S. C. White Leghorns, \$1 per 15 eggs.
Silver Spangled Hamburgs, \$1 per 15 eggs.

J. C. Branthoover,

HOMER CITY POULTRY FARM, Homer City, Pa.

SHOMAKER'S POULTRY FARM.

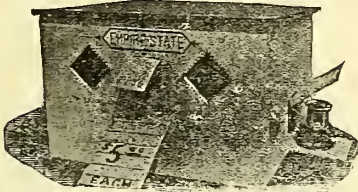


The largest in Pennsylvania. We are breeding forty-seven varieties. We lead in quality and quantity. Our prices are reasonable. Inspection solicited. Write for our 20-page catalogue. Eggs for hatching, \$1, \$2, \$2.25, \$2.50, and \$5 per 15. Trios, \$7 to \$12.

G. G. SHOMAKER & CO., York, Pa., U. S. A.

PEEP-O-DAY, is the most successful brooder in America. Our \$5 Brooder is the best one made. Portable Poultry and Brooder-Houses, etc. We sell the metallic parts and plans to make our brooders so that you can save on freight charges. Catalogue free. E. F. HODGSON, Box 60, Dover, Mass.

THE EMPIRE STATE BROODERS ARE WITHOUT AN EQUAL.



Are sold under a positive Guarantee, and are worth double the sum asked for them. 100-chick size only \$5.00; 200-chick size only \$10.00; Crosier's Lice Paint, 5 lbs. \$1.00; Crosier's 20th Century Lice Powder only 10cts. 1b., guaranteed first-class; Climax Leg-bands, 50 for 50 cts., or 90 cts. per 100; Crushed Oyster-shells 50 cts. per 100 lbs. or \$8.00 per ton. Other poultry supplies very low priced. Write us to-day, enclosing 2-cent stamp for fine illustrated catalogue. Circulars only for card. Satisfaction Guaranteed.

EMPIRE STATE BROODER CO.,
Box C 3, Halls Corners, N. Y.

Mt. Rose Poultry Farm's Barred Plymouth Rocks (Thompson), Buff Wyandottes (Mattison), Silver Wyandottes (Hawkins), Pekin Ducks (Rankin), are not excelled in blood or quality at the price we ask for them. Stock sold, subject to return if not satisfactory. Illustrated circulars free.
J. T. DEW & SON, Summerfield, Ohio.

Winners Wherever Shown. Noyes' Buff Rocks (Gilt Edge Strain).

Bred exclusively by me since '95. They are even from tip to tip, and of best blood in America. At Torrington, Conn., Show, Nov. 27th-30th, in strongest competition ever in State (68 birds), on 5 entries won as follows: 1st ck'l, 2nd hen, 3d cock, 1st pen; special for best ck'l; special for best cock and ck'l. At Hartford, Conn., Show, in strong competition, on 2 entries, 3d ck'l (1st pen ck'l at Torrington), 2d pullet. At Providence, R. I., in strong company, on 4 entries, 1st cock, 1st ck'l, 1st pullet, 3d hen; specials for best surface-colored cock and ck'l; 1 special best under-color; 1 special clearest tail; 2 specials for best cock, ck'l, hen, and pullet; 1 special for best cock; 1 special for best ck'l. Eggs booked now from above winners, at \$2 per 15 straight, and you get the very best. Stock for sale. Address, P. W. NOYES, Quaker Hill, Conn.

The Rural Sun A large 48 column monthly devoted to the Farm, Poultry, Pigeons, Pet Stock, etc., one year free, card or ad of one inch inserted one year and 100 No. 6 white envelopes all for ONE DOLLAR. Postal Money Order or Registered Letter. No stamps taken. Address, STANLEY CARRICK, Orangeville, Md.

WELLES' Invincible Strain of BARRED P. ROCKS

That have been bred for years in line of the New York winners,
Never fail to win in the strongest competition.

Record at Madison Square Garden, N. Y., 1899,

1st and 2d hens,
1st and 2d cocks,
1st, 2d, and 3d pullets,
2d, 3d, 4th, and 5th cockerels,
1st, 2d, and 4th breeding-pens,
AND ALL SPECIALS,

Including the

..President's Cup..

Value \$100,

For Best

Cock, Hen, Cockerel, and Pullet.

ALSO THE

SILVER CHALLENGE TROPHY CUP, VALUE \$100,

For Best Cock, Hen, Cockerel, Pullet, and Yard,
and

GOLD SPECIAL FOR BEST BIRD SHOWN IN 1899.

This (to say nothing of my past winnings at New York), is a record which has never been equalled or approached by any breeder, and stands good to-day. A grand lot of birds for sale for the fall and winter shows. Also choice breeders. Circular free.

C. H. WELLES,

Box P, Stratford, Conn.

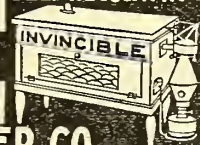
Sell Six 50 Egg Size At
\$5.00 Each.

AND GET ONE FREE
LIKE IT FREE

Sell Five 100 Egg Size At
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INVINCIBLE HATCHER CO.

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Sell Four 200 Egg Size
At \$14.50 Each.

GUARANTEED FREE
2 YEARS

Hatch Every Good Egg.
Send for No. 108 Catalogue.

SPRINGFIELD, O.

Banner Roup Cure



Roup is a disease to which poultry are subject, and every precaution should be taken to prevent it spreading through the whole flock.

The BANNER ROUP CURE is guaranteed to cure Roup and Colds in all stages, also Canker in Pigeons. It is very easily administered, simply put in the drinking-water, and the fowls take their own medicine.



We guarantee this to cure or refund you your money. Follow directions on box and you will never lose a bird. Prices 50c. and \$1 per box Postpaid. A 50-c. package makes 25 gallons and the \$1 box makes 75 gallons of medicine. This is the cheapest and best Roup Cure in the market. Manufactured only by

EXCELSIOR WIRE & POULTRY SUPPLY CO.,

W. V. RUSS, Prop.

Dept. T,

26 and 28 Vesey St., NEW YORK CITY.

CAN'T YOU SEE
a good thing when it's before you? Of course you can, and when you see the

MANN'S 1902 Model BONE CUTTER

you'll realize that the bone cutting problem is at last solved. It's a machine on entirely new lines; for while it embodies the fundamental principles which have sold more Mann's than all other makes combined, it has so many radical improvements that it throws even the Mann's of a few years ago, far in the shade. Its self-governing automatic feed, making it turn evenly no matter how hard the bone; its hinged open cylinder, its special knives cutting all gristle and meat; its new design, open hopper, enlarged table, new device to control feed make it perfect. You can set it to suit any strength. Never clogs. Sent on

SENT ON TEN DAYS FREE TRIAL.

No money asked for until you prove our guarantee on your own premises, that our new model will cut any kind of bone with adhering meat and gristle, faster and easier and in better shape than any other type of bone cutter. If you don't like it, send it back at our expense. Free Cat'lg explains all.

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Mfrs. of Clover Cutters, Corn Shellers, Swinging Feed Trays, Granite Crystal Grit, Etc.




BOILED BEEF AND BONE.

Live, healthy, strong, and vigorous chicks are always hatched from hens when **Romaine's Boiled Beef and Bone** is fed to them.

Nothing can possibly make hens lay more or better eggs than **B. B. B.**, as it takes the place of insect life for both hens and chicks. It contains the nutritious elements found in meat. The egg-basket is always filled, and chicks grow faster when **B. B. B.** is used.

B. B. B. Is guaranteed cheaper than meat, better than scraps and safer than medicine. It will make hens lay more eggs and keep them in better health than any other food or condiment. Sample free. 50 lbs. \$1.25. 100 lbs. \$2.25.

D. W. ROMAINE,
Sole Mfr.,
(Successor to Smith & Romaine)
124 Warren Street,
New York City.



Standard, bred-to-lay S. C. W. Leghorns, S. C. B. Leghorns, Black Minorcas. Choice breeding and exhibition stock, in pairs, trios, or any size pen. Fine selected ck's \$2 and up. Eggs, \$2 per 15; \$8 per 100. S. G. SELOVER, Owasco, Cay. Co., N. Y.

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Catalog of **The Perfected Von Culin** free. Practically perfect. Satisfaction or no pay. Successful result of 25 years' experience. Prices \$7 up. Address **The W. T. FALCONER MFG. CO.,** Sta. J, Jamestown, N. Y.

For Sale Entire Stock.

Wm. H. Halteman, Breeder of fine Buff Pocks, died in January. His stock is placed with me for sale. Not a bird reserved. Every bird is a selected one, bred from the leading strains out of the summer's flock. Because of high feed they have been culled down to the very best. 1 fine, two-year-old, solid Buff cock, 1st at Middletown, Pa., \$8. 1 fine, one-year-old, solid Buff cock, comb hurt, \$5. Three cockerels selected for pens, \$5. 10 hens, pen 1, each \$2. 35 pullets and 5 hens, each \$1.50. These are the breeding pens mated for 1902 and will be taken just as they come, all worth, as you well know, much more. 15 July pullets, every one a select, even, light Buff, \$1 each. 8 July cockerels, same, \$1 each. 10 grown cockerels, nice ones, \$2.50 each. Speak quick, for they will all be sold in a short time. It is a rare chance.

W. W. KULP,
Pottstown, Pa.

1881 Orr's Silver Wyandottes. 1902 Always at the Front.



At the Great Pan-American, Sixty Silvers shown by Ten Competitors. "The finest show of Silvers ever seen." Beaver Hill Farm (T. E. ORR, Prop.) won just one-half of all cash paid on regular premiums.

1st and 2d cocks, 1st and 2d hens, 2d pullet, and 2d pen, is not a bad showing. A few breeders for sale, \$3 to \$10 each. Eggs, \$3; 4 settings \$10.

T. E. ORR,
552 Liberty St.,
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MY WINNINGS
At Malden, Mass., Dec. 4-7, in strong competition, but strengthened my reputation for breeding a quality of **Barred Plymouth Rocks** which can not be excelled. I won 1st and 2d on cocks; 1st and 2d on cockerels; 1st, 2d, and 3d on pullets; 3d on hen; 1st and 2d on pens. I have some splendid specimens of **Barred Beauties** for breeding stock at \$4 and upwards. Eggs, \$2 per setting; \$8 per 100. Circular free. **J. W. RANDALL, Prop., Meadowview Poultry Yards, 403 Salem St., Malden, Mass.**



L. O. BROMLEY'S Silver Creek, New York. This season at Washington, D. C. on 4 entries, 1st breeding-yard, 1st hen, and 4th pullet. Have won at Rochester, N. Y., Erie, Pa., Boston, Mass., and several other shows. Pullet-bred cockerels from the above winnings, \$5 each. Eggs \$2 per 15. Catalogue for stamp.

SUCCESS WITH POULTRY

We are making a specialty of supplying poultry people with a full line of **Foods, Appliances, Etc.**, which will surely increase the product and profit of hen farming. We issue a large illustrated catalogue covering the entire subject and will be pleased to mail you a copy **Free** if you will ask for it. It treats among other things of **Bone Cutters, Incubators, Crushed Oyster Shells, Grit, Bone, Meat Meals, Beef Scraps, Condition Powders, Disinfectants, Lice Killers, Feeding Troughs, Drinking Fountains, Poultry Netting, Etc.**

An article of special merit is our

CUT CLOVER HAY

all ready for use. When scalded it makes the ideal green food for the flock in winter. Put up in 100 lb. Sacks at \$1.75 per Sack. Don't Forget the Catalogue.

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Banner Egg Food and Tonic

Now is the time you want eggs!

By feeding your fowls a little **Banner Egg Food and Tonic**

Your hens will lay lots of eggs, and you can double your profits, as this is the season of the year when fresh-laid eggs are scarce. Remember, this **Tonic** does not force your hens to lay, it only brings them up to the pink of condition, which is necessary for egg-

production.

To those who have never used it, we simply ask you to give it a trial, and be convinced.

Prices: 1-lb. can, 25c., by mail, 40c.; 5 cans, \$1, on board express in New York.

EXCELSIOR WIRE AND POULTRY SUPPLY CO., Dept. T.

W. V. RUSS, Proprietor.

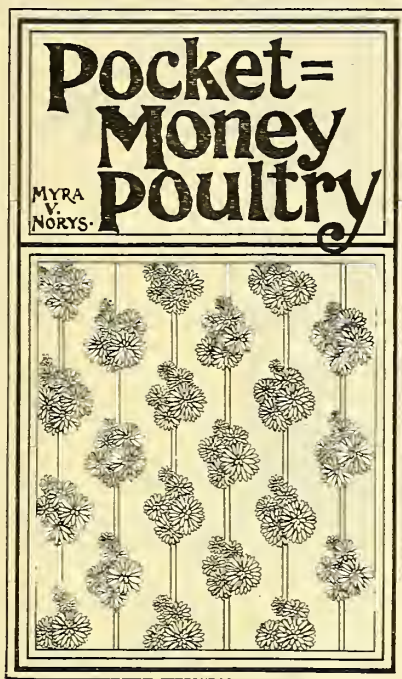
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Our immense illustrated Poultry Supply Catalogue, **Free.**



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Book on
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over 100 illustrations of Fowls, Incu-
bators, Brooders, Poultry Supplies, etc.
How to raise chickens successfully,
their care, disease, and remedies. Dia-
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ers, and thoroughbred Fowls, with
lowest prices. Price only 15 cents.
C. C. SHOEMAKER, Box 214, Freeport, Ill.

"Pocket-Money Poultry."



The fourth book of THE FEATHER'S series is Myra V. Norys' latest production, "Pocket-Money Poultry." This book was written primarily for women who wish to supply themselves with pocket-money by keeping a few fowls. It begins at the beginning of the subject, goes into the details, points out the essentials, and makes the course of the successful poultry-raiser so plain that any intelligent person can follow it without difficulty.

The experienced poultryman will, also, read this book with both pleasure and profit. There are none so old and experienced but that they have still much to learn. Perfection in this as in other occupations is hard to attain, and those who are doing the best still find room for improvement.

"Pocket-Money Poultry" has the following interesting chapters: Women—Fowls—Money, How Much Capital?, Choosing a Line of Work, The Breed that Wins, Artificial and Natural Incubation, Satisfactory Coops and Brooders, Mothering Chicks, The First Season's Work, The First Season With Fancy Poultry, Confinement or Freedom, The First Poultry-House, Feeding for Eggs, The Embryo Chick at Testing Time, Ducks and Geese, Turkeys for Pocket-Money, Squabs for Pocket-Money, Pocket-Money Possibilities, Pocket-Money Pointers, Supplementary Food Supplies, The Possible Value of Caponizing. Price, 50 Cents.

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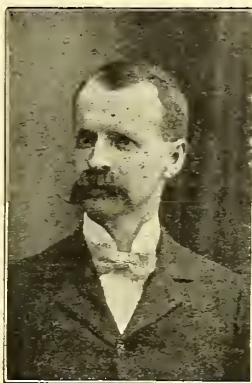
HAIR ON FACE, NECK, AND ARMS
instantly removed without the slightest inconvenience, pain, or injury to the most delicate skin, by using our new discovery,

"PEERLESS CHARM."
It is sent by mail securely sealed with full instructions for use, on receipt of \$1. If it fails to satisfy you, we will promptly refund your money.

Address,
**PEERLESS
CHEMICAL CO.,**
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Vass' Buff Orpingtons.

At the Crystal Palace Show of America, Madison Square Garden, N. Y., 1901, 1st and 2d cocks, 1st and 2d hens, 1st cockerel, 1st and 4th pullets, in the largest class of Orpingtons ever shown in this country. A few trios of Orpingtons at reasonable prices. Buff Rocks and White Wyandottes of high quality. Eggs and stock for sale. Circulars free. Satisfaction guaranteed.
C. E. VASS, Washington, N. J.



Why stand ye
here all the day
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Why not purchase pure Barred Plymouth Rocks at headquarters? We raise them exclusively, and have a fine lot of cockerels and pullets to select from. All for sale at moderate prices. Eggs in season. Call on or address,

GEO. S. GIBBS,
Stewartstown,
York Co., Pa.

Orders by mail promptly attended to.

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Lead, all others follow. I expect to put 12,000 machines out during 1902. To do that, must have the right machine, at the right price. I have both. Illustrated catalogue, 4c. in stamps.
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Granulated Blood, deodorized, (80% pure albumen and each pound equal to 16 pounds of fresh beef) is the base or body of Lee's Egg Maker. A 25c package contains 1½ pounds of this splendid condensed egg food, and 1½ pounds of spices, salts, roots and herbs to make hens lay, chicks grow and keep all strong, healthy and vigorous. Prevents and cures colds, roup, cholera, etc. The largest value ever offered and the greatest egg producer in the world.

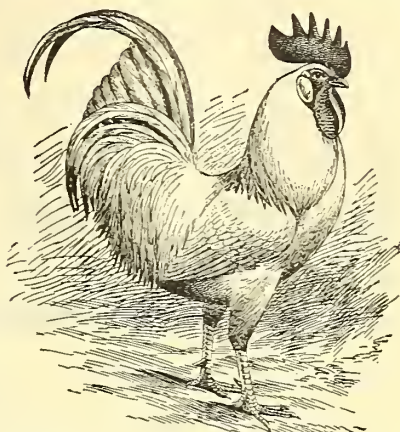
50 FEEDS For 25 25 cts.

Don't take cheap substitutes. Sold by one dealer in most every town, or direct at 25c per package, \$2 per 25 lb. package. Circulars with testimonials free. Address nearest place—

GEO. H. LEE CO., Omaha, Neb.

2½ lb. PKG. For 25 cts.
Lilly, Bogardus & Co., Seattle, Wash.
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Cyphers Inc. Co., Buffalo, N. Y.
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Prize-Winning Leghorns.



The birds at the home of the S. C. W. Leghorns, won a great record in 1900, as many of you know, but it seems as though in the year 1901 they had reached the top notch. At the Fitchburg Show, Dec. 31st to Jan. 3rd they won 5 firsts, 5 seconds, 2 thirds and 6 specials, also silver cup for best cock, hen, cockerel, pullet, and pen in any one variety of Leghorns; all this on 14 birds. Birds from these yards have won more firsts in the hands of my customers at the leading fall shows such as Concord and Nashua, N. H., Greenfield, Brockton, Clinton, Brattleboro, etc., than all others put together.

Stock and Eggs For Sale.

Eggs from 1 setting to 1,000 eggs at reasonable prices.

Send for circular. Prices on application.

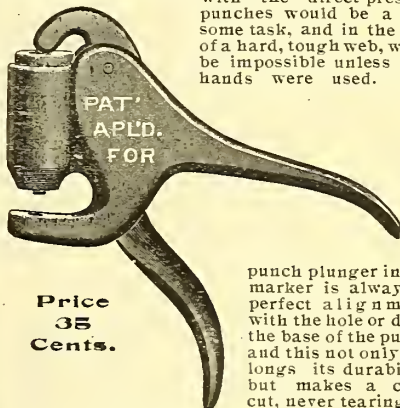
F. G. POWERS,
STERLING, MASS.

Mark Your Birds!

This Spring Lever Poultry Punch is the best device made for marking your birds. Every Poultryman should have one.

We will give it
FREE
To Subscribers.

The leverage provided in this device for marking poultry enables one to punch with perfect ease any kind or number of webs, and to do this with the direct-pressure punches would be a tiresome task, and in the case of a hard, tough web, would be impossible unless both hands were used. The



Price
**35
Cents.**

punch plunger in this marker is always in perfect alignment with the hole or die at the base of the punch, and this not only prolongs its durability, but makes a clean cut, never tearing the web. They are well

made, handsomely finished, and carefully tested.

To every one sending us 50 cents, the regular price, for one year's subscription to THE FEATHER, and mentions it at the time of sending in their subscription, we will give **Absolutely Free** one of these Spring Lever Poultry Punches. Don't send stamps.

Geo. E. Howard & Co.,
305 Tenth Street N. W.,
Washington, D. C.

BLANTON'S BLACK MINORCAS AND BARRED ROCKS.

At the Great Philadelphia Show Won 7 regular and 13 specials on Black Minorcas. Special on Ideal cock's comb (19 in class). Special on best-shaped female (64 in class). 2d, 3d, and 5th cockerels, (18 in class). Showed 3 heaviest cockerels ever shown in America, one weighing 10 lbs., two 9½ lbs. each. Hens weighing as high as 8¼ lbs., pullets, 7½ lbs. Superb matings. Write for catalogue. Eggs, \$3 per setting; 2 settings, \$5. Limited amount of stock for sale.

CHAS. L. BLANTON, Falls Church, Va.

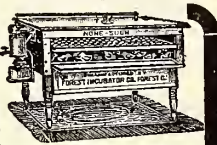
COSTS YOU NOTHING

NOT ONE CENT PAID UNTIL TRIED. THE

NONE-SUCH INCUBATORS

Send 4 cts. for catalog and special prices.

are sent on 30 days trial. This shows our faith in them. Automatic egg tray. Perfect ventilation. Ample moisture. Self regulators that keep the heat just right. No getting up nights to look after them. So simple a child can run them. Sold at low prices and fully guaranteed. FOREST INCUBATOR CO., Lock Box. O Forest, O.



Belgian Hares by the Car-load.

That indicates the quantity—the magnitude of our business. We are the only concern on earth that actually handles or can handle carload lots.

One Hundred and Eleven

Silver cups, gold medals, sweepstakes, firsts, seconds, thirds, V. H. C., H. C., and specials, are what we have won this season to Jan. 1st. These indicate the quality of our stock.

Through Local Branches

Of our Company we offer the 20th Century way to make money raising Belgians—small expenditure, large profits. Does loaned, Bucks supplied free. We sell the stock you raise, on commission. If you want to know about it send for our Large Free Book, sample copy of paper and other literature, Free for stamp.

Shares Advanced from \$10 to \$11, Jan. 1st.

They will advance to \$12, February 1st; \$13, March 1st; \$14, April 1st; \$15, May 1st; and so on up to \$20.

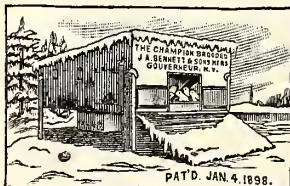
We Are Lifting the Belgian Hare Industry

Out of the reach of fakirs and swindlers, placing it where it belongs on a solid foundation—where it will pay large dividends. The quicker you get in the more money you will make. Don't be a clam, investigate. Do it now.

EASTERN IMPORTING & BREEDING CO., Belfast, Maine.

The \$5 Champion Brooder

Makes Another Great Advance And Reaches The Pinnacle Of Brooder Perfection.



It has always been our aim to keep the Champion Brooder at the head as the best and cheapest artificial Chicken Raiser in the world. This season we place it on the market with another improvement added to its many perfections.

THE EASY CHICKEN FEEDER Is our latest improvement which easily and quickly teaches the chicks to help themselves to food and drink. No starving the chicks for two or three days on account of their not being able to eat. Our Easy Feeder does the business. It feeds them while you are away. Automatic and certain in its action. The Champion Brooder is the only brooder in the world having this patented device.

The \$5 Champion Brooder

Is the only brooder in the world which can be operated out of doors in zero weather equally as well as indoors. There is but one perfect brooder and that is the \$5 Champion. Facts are stubborn things so we submit the following:

"OVERLOOK,"

Montpelier, Vt., February 14, 1901.

J. A. BENNETT & SONS, Gouverneur, N. Y.

GENTLEMEN: My first flock of White Plymouth Rock chicks for 1900, hatched March 10th, and two or three days later they were placed in a "\$5 Champion." Almost daily in the first week of their out-of-door life the mercury at sunrise ranged from zero to seventeen below, and during one night nearly a foot of snow fell. The most severe test was a ten-below-zero night, with the wind blowing a gale at my hillside home. The thermometer in the brooder registered 80 when I raised the cover next morning.

The upper cut (an April 1st picture) shows two of your brooders on the lawn; the middle picture is a nearer view, and the little flock dimly seen in the brooder at the left, has in it every bird of the 4th prize exhibit on-ward at the great Boston Show, 1901.

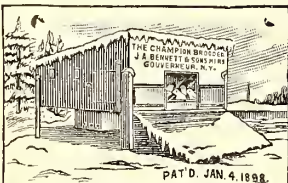
The lower picture shows the snow as it stood behind this brooder after the March storms. My little daughter is looking down upon the "early birds" struggling over a ground-bone substitute for the proverbial worm.

Comment upon the value of your wooden mother is hardly necessary. I shall confidently consign a flock of my best chicks, (if any hatch) to its tender mercies, in the same location, early next month. Very truly,

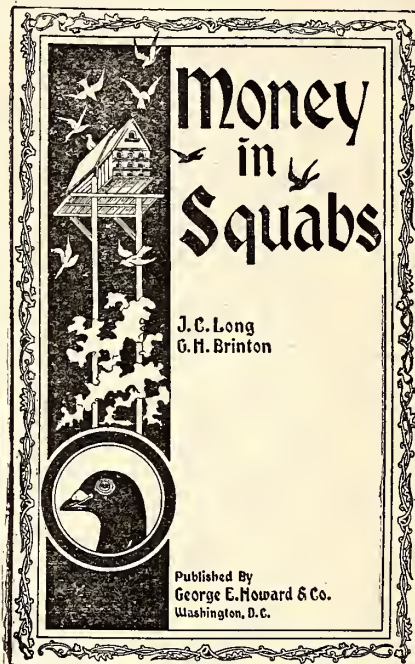
HERMON D. HOPKINS.

If you are in want of the best brooder made enclose stamp for our handsome catalogue and guide. 100-chick size, \$5. Size 3x3 feet.

J. A. BENNETT & SON, Gouverneur, N. Y.



"Money in Squabs."



The most interesting and the only practical book published on raising squabs for market, is our book entitled "Money in Squabs." This book has had a most generous sale during the past year, greatly exceeding the expectations of the publishers, and is, without doubt, the only reliable publication of its kind. "Money in Squabs" treats of every topic pertaining to pigeon raising, and is illustrated with the most modern and practical ideas for housing and breeding pigeons on a large as well as a small scale. You will surely be interested in the industry after reading this book, and the information gained will be worth many times its cost to you. "Money in Squabs" contains chapters on the following interesting subjects:

Introductory, Breeding Houses, Breeding Stock, Distinguishing Sex, Food and Feeding, Water, Salt, Nesting Material, Manure, Breeding and Management, Dressing Squabs for Market, Shipping and Selling, Diseases of Pigeons—Canker, Cholera, Egg Bound, Enteritis, Going Light, Roup, Small Pox, Sudden Colds, Wing Disease, Worms—and Douglass Mixture. Some of the illustrations are: Full-page drawings of Homers, Runts, Dragoons, and Duchesse Pigeons, Plans of Single, Double, and Continuous Houses for Breeding Squabs, Arrangement of Aviaries to a Garret Room and to a Barn, Plans for Building a House in the Back Yard, Plans of Nests, Perches, Mating Boxes, Bath Tubs, Drinking-Fountains, Salt-cat and Grit Boxes, etc., etc. The book is thoroughly practical, reliable, and of untold value to all who are interested in raising pigeons, for profit or pleasure. Price, 50 Cents.

GEO. E. HOWARD & CO.,

305 10th St. N. W., Washington, D. C.

BLANCHARD'S WHITE LEGHORNS

The Leading Strain of Heavy Layers

Are no experiment, having been carefully selected and bred for over twenty years, with results that fully justify the claim that they are the greatest laying strain of Single Comb White Leghorns in existence. No labor or expense has been spared in building up and perfecting this strain, and while the production of large, pure-white, fancy market eggs has been the main object, **STANDARD QUALITIES** have not been neglected. They are large, vigorous, active, and handsome. Good winter layers, and keep at it all summer. Our birds are unexcelled for introducing new blood, or as foundation stock. **NO BETTER ANYWHERE AT ANY PRICE. STOCK FOR SALE. COCKERELS A SPECIALTY.** Illustrated circular free.

H. J. BLANCHARD, Groton, Tompk. Co., N. Y.

HERCULES POULTRY FENCE

Many times as strong as regular Poultry Netting. Made from the best quality of Galvanized Steel Wire. Set Posts 20 feet apart. It

WILL NOT SAG OR BUCKLE

Will turn Calves, Hogs, Dogs, Wolves, Rabbits and Poultry. No top or bottom rail required. Size of Mesh, 2 inches. Size of Wire, No. 12 at top and bottom; intermediate line wires, No. 16; mesh wires, No. 18. **Sold at Anti-Trust Prices.** Also a full line of Farm and Ornate Fence. Send for free Catalogue. Address,

COILED SPRING FENCE CO.

Box 81. Winchester, Indiana, U. S. A.

LEFFEL'S Unconquerable Barred Rocks

If you do not believe it, **SEND AND GET HIS CATALOGUE**, and it will tell you who scored his birds. He stands in front, with highest scores by leading judges. I. K. Felch gave one of his cockerels score of 95 points, and wrote across score-card, "Every doubt given against this noble big fellow;" weight, 11 lbs. H. A. Bridge gave one of his birds score 95 points. B. N. Pierce cut one of his cockerels one-half in color. L. G. Jarvis, Guelph, Canada, scored 4 birds 94%. J. Y. Bicknell scored cockerel 94%. Charles McClave 93% scores of birds. I have exhibited 25 times in past 8 years and won 24 times on cockerel, and tied the other one score. Sharpe Butterfield scored 3 cockerels in one show 93%. Send for my catalogue and see my winnings and scores, and who scored them, and you will say I lead the procession in winnings. Elegant breeders in any number.

NEVER LOST ON BREEDING-PEN

in any score-card show, nor any pullet where they were weighed and weighed correctly. Eggs \$3 per setting. Only lost once on first cock. I won all prizes at Springfield, O., Aug. 21-24, 1900, all prizes offered. My strain won all prizes at Urbana, O., Aug. 14-17, 1900, this season making 30 times I have exhibited in 8 years. No breeder ever made such a record.

Ten Times I Won Every Money Prize Offered.

I have a grand lot of show birds for winter shows. They never fail to win for me, and they will win for my customers. Residence 363 South Fountain Ave. Farm one-half mile from city.

Eggs, \$3 per Setting. **GEO. M. LEFFEL, Springfield, Ohio.**

Always Win the Lion's Share Of Prizes.

Best to Exterminate Lice and Mites.

The endorsement of Poultry, Farm and Stock Journals and of best and largest breeders of swine and poultry everywhere, warrant you in choosing and using for your fowls and hogs that greatest of all insecticides—

LEE'S LICE KILLER

It is a liquid, applied to roosts for poultry; to bedding for hogs. It don't have to touch lice to kill them. There is no handling or disturbing fowls or animals. It works while they sleep. It contains more real insect destroying quality than any other liquid or powder in the world. Sold everywhere, but always in cans bearing our name and trade mark—never in bulk. Quarts 35c; 1/2 gal., 60c; gal., \$1. Testimonial circulars free. Address nearest place.

GEO. H. LEE CO., Omaha, Neb., or No. 8 Park Place, New York.

Cyphers Inc. Co., Buffalo, N. Y.

Henry Albers, Los Angeles, Cal.

Portland Seed Co., Portland, Ore.

Lilly, Bogardus & Co., Seattle, Wash.

CONKEY'S ROUP CURE

Cure Guaranteed.

Conkey's Roup Cure is the only positively known remedy to cure Roup in all its forms as long as the fowl can see to drink. Simply put the cure in drinking-water, and the fowl takes its own medicine. **For Canker**, especially in pigeons, this cure excels all others. Our 50c. package makes 25 gallons of medicine. **Directions** with every package. If it fails to cure, we refund the money. Postpaid, small size, 50c.; large size, \$1.

Conkey's Louse Killer never fails to kill. Try it. 25c. per package. 15c. extra for postage.

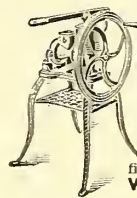
Conkey's Egg Food and Poultry Tonic Helps to produce larger and healthier eggs, and will make your hens lay when everything else fails. It regulates the liver and bowels and keeps their blood in a healthy condition. Will produce an egg every day. 25c. per package, and 15c. extra for postage.

AGENTS WANTED.

G. E. CONKEY & CO., Cleveland, O.

Eastern Wholesale Office, 8 Park Place, New York City. Pacific Coast Agents, Petaluma Incubator Co., Petaluma, Cal. Do not send stamps.

For Sale by all Poultry Supply Houses and Druggists.



WILSON'S New Green Bone Shell Cutter for the Poultryman

Also Bone Mills for making phosphate and fertilizer at small cost for the farmer, from 1 to 40 horsepower. Farm Feed Mills grind fine, fast and easy. Send for circulars. **WILSON BROS., Sole Mfrs., Easton, Pa.**

USE WILLETT'S BANDS.

1902.—

Adopted by all the Leading Specialty Clubs.

The official enameled bands are furnished by me at 4 cents or 45 cents per dozen with no initials numbered from one up. **Aluminum Bands** for pigeons and poultry, with year and number \$3 per 100, with year only \$1.50 per 100, with initials 25cts. per 100 letters. Send 2c. stamp for circular and sample band. Remittance must accompany order. **THOMAS WILLETT'S, 202 Lawrence Street, Lowell, Mass.**

ARE YOUR HENS LAYING?

If not, use **OVAMEAD, THE GREAT EGG PRODUCER**. Not a condition powder or egg food, but a specific that invigorates the egg producing organs and **MAKES HENS LAY**. Enough for 10 fowls one month, 50c., postpaid. Trial package, 25c., postpaid. **Ovamead Mfg. Co., Box 44, Rochester, N. Y.**, and all first-class poultry supply dealers. "Winter Egg Production" by Nellie Hawks, free, send for it.

Greider's Fine Catalogue



of prize winning poultry for 1902, printed in colors, illustrates and describes 50 varieties of poultry; gives reasonable prices of eggs and stock. Many hints to poultry raisers. Send 10c in silver or stamps for this noted book.

B. H. Greider, Florin, Pa.

Ideal Aluminum Leg-Band...



Is the acknowledged leader. Firmest and most secure lock, quickly put on and guaranteed to stay on. Price postpaid 12 for 20c. 25 for 35c. 50 for 65c. 100 for \$1. All supply dealers sell them. 3 samples and circular of Barred P. Rocks mailed for 5c.

FRANK MYERS, M.F.R. Box 11, Freeport, Ill.

CRUSHED OYSTER SHELLS.

50c. per hundred, ground fine, 30c.; Bone, Grit, Scraps, Charcoal, Bone Cutters, etc. Send for reduced price list.

J. H. SLACK, Mfr. Poultry Supplies, Box 329, Bloomsbury, N. J.

Cash for REAL ESTATE

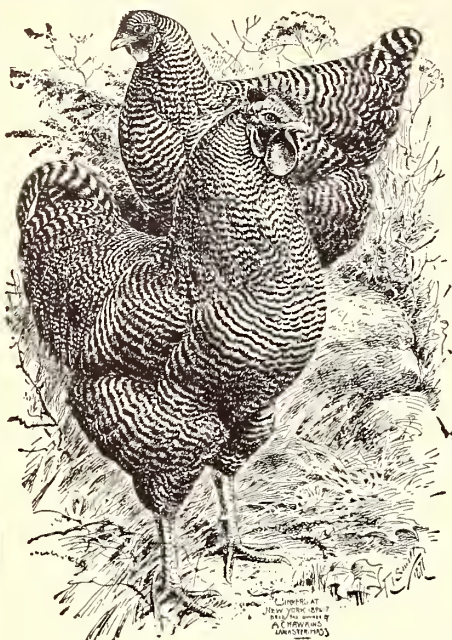
no matter where it is. Send description and cash price and get my wonderfully successful plan. **W. M. OSTRANDER, North American Bldg., Philadelphia, Pa.**

POULTRY PRIZES

There are no Better

Of course you have heard of the famous Pine Tree Farm poultry and its prizes. Don't you want to introduce a little new blood into your flock? I have 23 varieties of land and water fowls and will **Guarantee Satisfaction** with everything that I sell and ship. Eggs by the sitting or the hundred. Send for big free catalogue.

D. A. Mount, Box 1, Jamesburg, N. J. The Pine Tree Farm.



Winners at New York, from Life.

HAWKINS'

ROYAL BLUE STRAIN

PLYMOUTH ROCKS

BARRED, WHITE AND BUFF.

WYANDOTTES, SILVER WHITE AND BUFF.

ECCS FROM PRIZE MATINGS.

1 Sitting, \$5. 3 Sittings, \$10.
2 Sittings, \$8. 5 Sittings, \$15.
Per 100, \$20.00.

Have won more prizes at New York, Boston, Washington, and America's greatest shows than all others. My matings this season are the best I ever owned. * * * * *

At the Great National Show, WASHINGTON, D.C., in hot competition with over 300 birds of these varieties, the best that could be found regardless of price, I won 45 Regular and Special Prizes on 39 Entries, including First Prize on Breeding-Pen in each variety, Special for Best Display in the American Class, Special for Best Exhibit of Plymouth Rocks, Sweepstakes Special for Best Cockerel in the show (Bantams excluded), and this on my First Prize Barred P. Rock Cockerel. My winning White Wyandotte cock was pronounced by the judges to be the best they had ever seen. I won twice as many first prizes as all other exhibitors of these varieties. My BUFF ROCKS, at Boston, 1899, in hot competition, won more first and special prizes than all others. My customers are winning all over the country. If you want the BEST, write me. Hundreds of Choice Exhibition and Breeding Birds at Honest Prices. Catalogue of America's finest Plymouth Rocks and Wyandottes free.

A. G. HAWKINS, Lock Box 28 Lancaster, Mass.

Good-Bye, Good People!

EXMOOR FARMS Wishes you a kind Good-bye, sweetened to suit the taste with best wishes for a happy and prosperous New Year. 1902 is going to be a bird, mark our words. May you all advance; may you all breed "the best" and win; you surely will if you have Exmoor strains of profitable poultry. We shall not advertise for the season of 1902, save in a small way. 1901 was a good friend to us and sales were beyond our fondest expectations.

The Sales and Friends made in 1901 will be our Walking Ads for 1902.

Cheap ads and fine ads, don't you know. We already have some \$400 worth of egg orders booked, and time in plenty to get more.

Our Blue Swedish as well as Pekins—did you see them do the winnings at Philadelphia last week? O my, but how they did wallop up the small fry! Our Games as well as Leghorns and Rocks. All eggs go for \$2 per setting, or 3 settings for \$5; if, yes sir, if you order now. 263 parties were disappointed last year, they got their money back, we could not touch their egg orders; 1,000 is apt to be the number this year. 1,000 disappointed people means 1,000 applicants at drug stores for liver pills and stuff for that "tired feeling." Beware in time; get your orders booked now and have a glad heart. Catalogue tells all, 4 cents in stamps.

EXMOOR POULTRY FARMS,

E. A. WEIMER, Prop.
THEO F. JAGER, Supt.

Lebanon, Pa.

"Ringlets" Soar Still Higher.

At the Empire Show of the Nation—Madison Square Garden, N. Y., the World's Record of
E. B. Thompson's Barred Plymouth Rocks

4 Years in succession was the most remarkable ever achieved in the realm of poultry exhibitions. This record is by many points the highest ever accomplished in annals of the New York Show. Winning more than three times as many 1st prizes as any other exhibitor, and as many 1st prizes as all competitors combined. Besides, more than twice as many cups and specials as all, including the superb challenge trophy, value \$100, for best cock, cockerel, hen, pullet and exhibition-pen; \$100 sterling silver cup for finest exhibit; grand special prize sweepstakes cup, value \$100, presented by the President for best P. Rock cock, cockerel, hen, and pullet any variety. My clean sweep in 1898, of

1st, 2d, 3d, 4th, and 5th Prizes

on pullets has never been approached in Madison Square Garden, and stands alone and unequalled. The "Ringlet" world's record of 1st on exhibition-pen at New York 3 years in succession is the undisputed champion. With their 1900 record the "Ringlets" have won at New York a grand total of 77 prizes. 31 of these are 1st and specials, being 17 more first and special prizes than won by any competitor in the history of the show.

Grand Stock For Sale. 600 Breeding Cockerels—one of them will do you good. Show birds fit to win in the fastest company.

Richly illustrated 24-page catalogue on application. It is full of original illustrations of New York Winners from life. Choice Females in any number.

EGGS From Finest Exhibition Matings, 1 setting \$5; 2 settings \$9; 3 settings \$12; 4 settings \$15.



Winners of the President's \$100 Sweepstakes Cup for best cock, cockerel, hen, and pullet at New York.

Address, **E. B. THOMPSON, Box 406, Amenia, Dutchess Co., N. Y.**

THE FEATHER



BY COURTESY
U. S. BUREAU
ANIMAL INDUSTRY.

GOLDEN PENCILED WYANDOTTE MALE.

PUBLISHED BY · **GEORGE E. HOWARD & CO.** WASHINGTON, D.C.

Single Copy, 5 Cents.

Yearly Subscription, 50 Cents.



Banner Roup Cure



Roup is a disease to which poultry are subject, and every precaution should be taken to prevent it spreading through the whole flock.

The BANNER ROUP CURE is guaranteed to cure Roup and Colds in all stages, also Canker in Pigeons. It is very easily administered, simply put in the drinking-water, and the fowls take their own medicine.

We guarantee this to cure or refund you your money. Follow directions on box and you will never lose a bird. Prices 50c. and \$1 per box Postpaid. A 50-c. package makes 25 gallons and the \$1 box makes 75 gallons of medicine. This is the cheapest and best Roup Cure in the market. Manufactured only by

EXCELSIOR WIRE & POULTRY SUPPLY CO.,

W. V. RUSS, Prop.

Dept. T, 26 and 28 Vesey St., NEW YORK CITY.

WELLES' Invincible Strain of

BARRED P. ROCKS

That have been bred for years in line of the New York winners, Never fail to win in the strongest competition.

Record at Madison Square Garden, N. Y., 1899,

1st and 2d hens,
1st and 2d cocks,
1st, 2d, and 3d pullets,
2d, 3d, 4th, and 5th cockerels,
1st, 2d, and 4th breeding-pens,
AND ALL SPECIALS,

Including the

..President's Cup..

Value \$100,

FOR BEST

Cock, Hen, Cockerel, and Pullet.

ALSO THE

SILVER CHALLENGE TROPHY CUP, VALUE \$100,

For Best Cock, Hen, Cockerel, Pullet, and Yard,
and

GOLD SPECIAL FOR BEST BIRD SHOWN IN 1899.

This (to say nothing of my past winnings at New York), is a record which has never been equalled or approached by any breeder, and stands good to-day. A grand lot of birds for sale for the fall and winter shows. Also choice breeders. Circular free.

C. H. WELLES,

Box P, Stratford, Conn.

The Rural Sun

A large 48 column monthly devoted to the Farm, Poultry, Pigeons, Pet Stock, etc., one year free, card or ad of one inch inserted one year and 100 No. 6 white envelopes all for ONE DOLLAR. Postal Money Order or Registered Letter. No stamps taken. Address, STANLEY CARRICK, Orangeville, Md.

Flood's Roup Cure

The only RELIABLE ROUP CURE on the market. It is guaranteed. No cure, no pay. FLOOD'S ROUP CURE can be used with greater success, with less time and attention than any other of the so-called cures. Price, 50 cents postpaid. Send us 2 cts. in postage for Sample. Manufactured only by

W. H. FLOOD, 1403 Woodland Avenue, Cleveland, O.

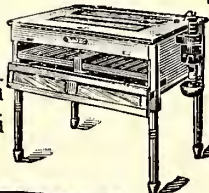
200-Egg Incubator for \$12.⁸⁰

The simplicity of the Stahl incubators created a demand that forced the production to such great proportions it is now possible to offer a first-class 200-egg incubator for \$12.80. This new incubator is an enlargement of the famous

WOODEN HEN

recognized the most perfect small hatcher. This new incubator is thoroughly well made; is a marvel of simplicity, and so perfect in its working that it hatches every fertile egg. Write for anything you want to know about incubators. Send for the new free illustrated catalogue.

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A ROUP PROOF FLOCK
is clearly possible when
Rust's Havens' Roup Pills
are kept constantly on hand and fowls are treated on slightest appearance of indisposition. Those already suffering from the malady may be quickly cured and restored to health and profit by their use. They are equally effective for Catarrh, Distemper, etc. These pills utterly upset the old theory that the ax is the only cure for roup. Used and endorsed by the leading breeders and poultrymen everywhere. One small box will convince. Buy now and be ready for the first indication of disease in your flock. 25c and \$1.00 of dealers or mailed on receipt of price. If your dealer does not have them, send us his name and receive our booklet free.
William Rust & Sons, Box 12, New Brunswick, N. J.

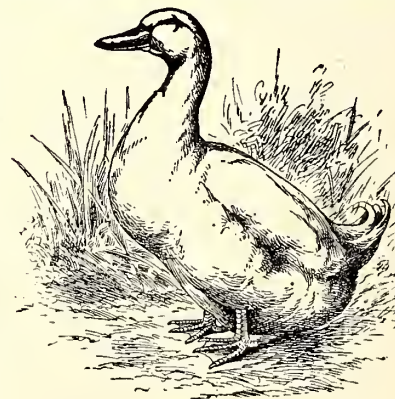


One Food Cooker
we know is made on right lines.
The Reliable
is a combined food cooker and water heater. The best of material, good workmen and experience make it the only one of its kind. 20 gal. \$5.00, 50 gal. \$14.00, 100 gal. \$16.00. Don't buy a food cooker until you have investigated this one.
Ripley Hardware Co.,
Box 243, Canton, Ill.

Imperial Pekins

—AT—

Maple Farm Duck Yards.



2,500 breeding birds on hand, all carefully selected from many thousands. The largest and best birds on this continent. Birds not akin, from forty different yards. Eggs in season, fertility guaranteed. Order early to secure birds. My book "Natural and Artificial Duck Culture" with each order for birds or eggs. See what the Boston marketmen say about our birds. Send for illustrated catalogue. The Monarch Incubator still ahead, send for catalogue.

JAMES RANKIN, South Easton, Mass.

THEY WIN IN 1901-2.

Fishers Island Farm Breeding

Again wins the highest honors in the world's largest shows.

Our **BARRED ROCKS** have won the world over and are better this season than ever.

WE WON twice as many first prizes as any other exhibitor at **Boston, 1900**, and again the same month at **New York**, with an entirely different string, three times as many firsts as any other exhibitor on **WHITE ROCKS**—a record never approached by any other breeder.

Our **Cornish Indian Games**, **Pekin** and **Mallard Ducks**, and **Bronze Turkeys**, have always stood at the head.

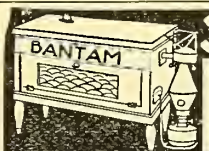
We have hundreds of breeding birds of rare merit at very reasonable prices.

Eggs that will hatch from our best prize matings of Barred and White Rocks, \$3 per 15; \$5 per 30; Ducks, \$2 per 11; and Turkeys, \$5 per 10.

Catalogue free.

FISHERS ISLAND FARM,

Box H, Fishers Island, N. Y.



30 DAYS TRIAL

Hatch Every Good Egg

Or Don't Keep It.

Send 2 cents for Number 108 Catalogue

50 EGG \$5
SIZE \$5
100 EGG \$9.50
SIZE \$9.50
200 EGG \$15
SIZE \$15

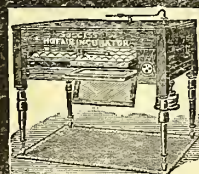
SELF-REGULATING BUCKEYE INCUBATOR CO. SPRINGFIELD

Woodward's Pedigreed Line of

BARRED PLYMOUTH ROCKS

Still keep to the front, having taken nearly everything in sight at **Nashua, N. H., December 3-6, 1901**, winning 1st pen; 1st, 2d, and tied 3d cockerels; 2d cock; 1st, 2d, and 3d pullets; 2d hen. I entered two birds at **Boston** in the open class (1 cockerel and 1 pullet) and won 2d pullet, two specials; and **H. C.** on cockerel, or 5th place. This record together with my record of the last two years places my line of **Barred Plymouth Rocks** with the best. I have some choice cockerels and pullets, own brothers and sisters to my winners, for sale at live and let live prices. Eggs are now being booked at \$3 per setting, or two for \$5, from the best pens I have ever put together. Satisfaction guaranteed. Write for prices.

JAMES H. WOODWARD, P. O. Box 34, Dunstable, Mass.



The Records of Poultrymen

show that the

SUCCESSFUL

is taking the lead among Incubators for safety and success.

St. Augustine, Fla., April 31, 1901.
I made one hatch that proved a 100 per center.
C. F. WINTON.

Sold at a low rate and guaranteed in every way. We have a new catalogue fully illustrated and filled with happy thoughts on question of Poultry Culture. Published in 5 languages—5 separate books. English edition, 154 pages, 4 cents postage. Others 80 pages, free.

Des Moines Incubator Co., Box 3 Des Moines, Iowa.
or Box 3 Buffalo, N. Y.

IT'S UP TO YOU!

Line-bred Layers. Big Reduction on Eggs. Anconas, imported matings, eggs, \$3 per 15; \$5 per 30.

S. C. B. Minorcas, \$1 per 15 eggs.

S. C. Brown Leghorns, \$1 per 15 eggs.

S. C. Buff Leghorns, \$1.25 per 15 eggs.

S. C. White Leghorns, \$1 per 15 eggs.

Silver Spangled Hamburgs, \$1 per 15 eggs.

J. C. BRANTHOVER.

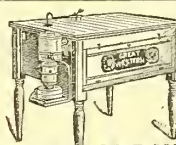
HOMER CITY POULTRY FARM, Homer City, Pa.

SHOMAKER'S POULTRY FARM.



The largest in Pennsylvania. We are breeding forty-seven varieties. We lead in quality and quantity. Our prices are reasonable. Inspection solicited. Write for our 20-page catalogue. Eggs for hatching, \$1, \$2, \$2.25, \$2.50, and \$5 per 13. Trios, \$7 to \$12.

G. G. SHOMAKER & CO., York, Pa., U. S. A.



What! Only \$10

Yes, and holds 100 eggs, has 12 oz. Copper Tank, Deflector, Turning Trays, Handsome Finish, Safety Lamps, Perfect Regulation and highest per cent of hatch. Our beautiful catalogue is mailed free. Contains our

40 DAYS' FREE TRIAL in your offer. Don't delay but write for a copy to-day.

GREAT WESTERN INCUBATOR CO., Dept. G KANSAS CITY, MO.

PEEP-O-DAY, is the most successful brooder in America. Our \$5 Brooder is the best one made. Portable Poultry and Brooder-Houses, etc. We sell the metallic parts and plans to make our brooders so that you can save on freight charges. Catalogue free. **F. F. HANCOCK Box 60 Dover Mass.**

INCUBATORS AND BROODERS



BEST HOT WATER PIPE SYSTEM. Simple, durable, economical and safe. Hatches stronger and more chickens from 100 eggs than any other. Prices reasonable. 96-page illustrated catalog of Incubators, Brooders, fancy poultry and poultry supplies free.

C. C. SHOMAKER, Box 456, FREEPORT, ILL.

60 Eggs For \$3.

15 for \$1; 30 for \$1.75. Two med. nest eggs with each order. Golden, White, Silver, and Buff Wyandottes. Golden and Silver Spangled Hamburgs. all var. of Leghorns, Minorcas, Polish, Light Brahmas, Buff, Barred and White Rocks, Anconas. Poor hatches dup. at half-price. Indian Games, \$1 per 13; \$2 per 30. Circular free. Mostly farm raised.

WHITNEY BROS., Triangle, N. Y.



CLIMAX LEG BANDS.

Neat, Light, Secure, and Durable. 12 for 25c; 25 for 40c; 50 for 75c; 100 for \$1.35.

Sent postpaid Samples free.

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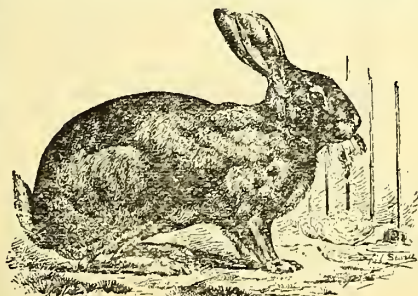
Battle Creek, Mich.



ECLIPSE LEG BANDS

20 a doz; 25 for 35c; 50 for 60c; 100 for \$1.

Prize-Winning Belgian Hares



At the recent Philadelphia Show our hares won 14 prizes; at Boston, 20 prizes; at New York, 9 prizes; at Harrisburg, Pa., 24 prizes. Let us tell you about Champion **SUNRISE**, imported, the greatest buck in this country, and of our hundreds of other high-class hares, both for show and breeding purposes. Catalogue and information furnished on request.

The Elmwood Rabbitry,

RUSSELL H. POTTER, Prop.

WILLIAM WILSON, Supt.

Hutches, 215 Highland Avenue.

Office, 205 D. S. Morgan Bld'g., Buffalo, N. Y.

Again Demonstrated Unmistakably



WINNER OF FIRST PRIZE AT
NEW YORK SHOW.

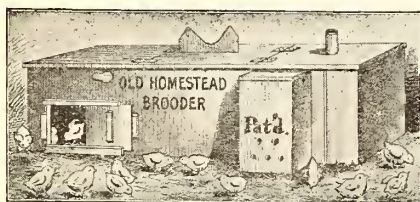
Twelve Different Males Bred and Raised by us have won First Prizes at New York Shows either singly or at head of pen and Six others we bred, won Second honors to these Firsts.

And Three Times the won on stock not our breeding.

Stock Do you wish birds of this Same Winning blood to improve your own? We have a large number at very reasonable prices. Breeding-Yards of 5 birds, carefully mated for either fine cockerels, pullets, or both sexes, \$15 and up.

EGGS from Best Pens Only, \$6 per 13, \$10 per 20, \$14 per 30, \$18 per 52, \$35 per 100. Large circular of "America's Best Illustrated" free.

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THE Old Homestead Brooder

Is the only Brooder made in the world that will hover its allotted number of chicks until they are three months old. We make three sizes, 30, 50, and 100 chicks. Catalogue free.

OLD HOMESTEAD BROODER CO.,
Middleboro, Mass.

Wonn's Buff Rocks.

Pure Nugget Strain.

They have shape, size, and color, combined with laying qualities. Pens headed by birds scoring 93½ "First cockerel at Elmira Show," 92½ and 92½. Eggs, \$2 per 15; \$3 per 30. Correspondence solicited and cheerfully answered.

MILTON W. WONN, Davis, W. Va.

Trethaway's Anthracite Black Minorcas

Have won more prizes at the past five Club Meeting Shows than all other strains combined. Winning at Philadelphia, Pa., from December 28, 1901, to January 2, 1902, 1st and 2d cocks, 1st, 2d, and 4th hens, 1st cockerel, 2d pullet, and 1st pen; and 18 specials, including 4 silver cups in a class of 71 single entries and 7 pens, winning the Club (\$250) Cup at New York, 1898, 1899, and 1901. 5 Grand Pens mated with the best birds in America, in them eggs from these pens, \$5 per 13; \$9 per 26. One special pen headed by Anthracite, Jr., weight 10 lbs.; 1st cock at Philadelphia; acknowledged by judges to be the Best Minorca Male ever seen, mated with 8 grand females each weighing from 7 to 8 lbs. A limited number of eggs from this pen, \$10 per 13 straight.

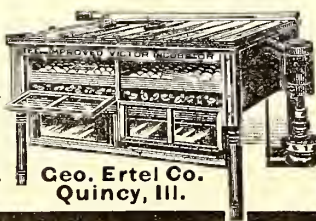
ARTHUR TRETHAWAY, N. Wells St., Wilkes Barre, Pa.



Correct in principle. Exact in operation. Absolutely self-regulating and the simplest, surest, most durable hatcher ever made. Praised by thousands of successful poultry raisers. The

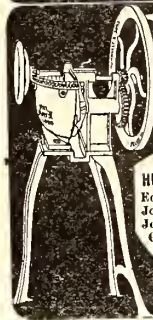
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leaves nothing to chance—hatches every egg that can be hatched. Needs no watching. The perfect product of science and long experience. Guaranteed positively as represented or money refunded. Free catalogue illustrated by photographs telling how to get increased results from almost any machine, for 6 cts. Write to-day. We pay the Freight.



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HENS EAT BUGS.



because they need animal food. Feed cut bone and get eggs when eggs are eggs. The

HUMPHREY

Green Bone and Vegetable Cutter is guaranteed to cut more bone in less time and with less labor than any other cutter made. Get your money if not perfectly satisfied. Catalogue free.

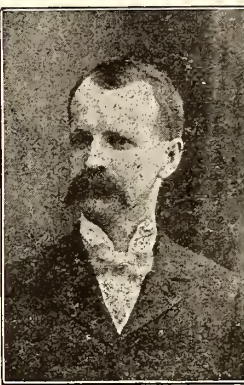
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SHOEMAKER'S POULTRY

Book on POULTRY and **Almanac for 1902**, 160 pages, over 100 illustrations of Fowls, Incubators, Brooders, Poultry Supplies, etc. How to raise chickens successfully, their care, disease, and remedies. Diagrams with full description of Poultry houses, All about Incubators, Brooders, and thoroughbred Fowls, with lowest prices. Price only 15 cents.

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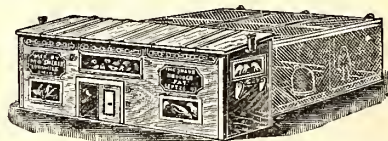
Why stand ye here all the day idle?

Why not our chase pure Barred Plymouth Rocks at headquarters? We raise them exclusively, and have a fine lot of cockerels and pullets to select from. All for sale at moderate prices. Eggs in season. Call on or address,

GEO. S. GIBBS,
Stewartstown,
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Orders by mail promptly attended to.

THE SHAUB COMPARTMENT BROODERS



Lead, all others follow. I expect to put 12,000 machines out during 1902. To do that, must have the right machine, at the right price. I have both. Illustrated catalogue, 4c. in stamps.

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Granulated Blood, deodorized, (80% pure albumen and each pound equal to 16 pounds of fresh beef) is the base or body of Lee's Egg Maker. A 25c package contains 1½ pounds of this splendid condensed egg food, and 1½ pounds of spices, salts, roots and herbs to make hens lay, chicks grow and keep all strong, healthy and vigorous. Prevents and cures colds, roup, cholera, etc. The largest value ever offered and the greatest egg producer in the world.

50 FEEDS For 25 Fowls 25 cts.

Don't take cheap substitutes. Sold by one dealer in most every town, or direct at 25c per package, \$2 per 25 lb. package. Circulars with testimonials free. Address nearest place—

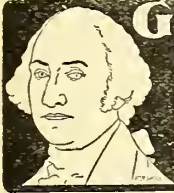
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Madison Square Garden and Boston Winners...

Rose C Brown Leghorns. The world's best; 242-egg strain; cherry-red and black-striped males. **S. C. Brown Leghorns.** First cock New York, two 2ds on hens, 3d cockerel, and 5th pullet. First cock and cockerel Washington one year. Many firsts in other shows. **Barred Rocks,** (Bradley strain), 6 firsts Sanatoga and Reading. **White Wyandottes,** (Duston strain). You will find ours equal to any no matter what price. **S. and R. C. White Leghorns;** 12 firsts Single Comb; 8 Rose; large, pure white; great egg strains. First Rose hen at Philadelphia and New York, 1902. **Buff Wyandottes** (Mattison and Dutcher). **P. Ducks,** 6 firsts. Eggs, \$2 per 15; \$5 per 45. Duck eggs, \$1 per 12. Cat. **W. W. KULP, Box 20, Pottstown, Pa.**



GEORGE WASHINGTON

had a sure little hatchet; it cut down a cherry tree. Our **LITTLE HATCHET INCUBATOR** is a sure "hatch it" because it hatches chickens just the same as our larger machines. Made of California red wood, three walls, cold rolled, 12 oz. copper tank, Hydro-safety lamp, Climax Safety heater and celebrated corrugated wafer regulator. Holds 75 eggs and sold at a low price. Just right for beginners or owners of small flocks. **M. M. Muth Catalogue** is now ready; full of practical information, hundreds of actual photographs and testimonials of actual users. Send for one. Write nearest House. **SURE HATCH INCUBATOR CO., Clay Center, Nebr., or Columbus, Ohio.**

ARNOLD'S

BUFF LEGHORNS, Are acknowledged to be the best in the world.
BUFF PLYMOUTH ROCKS, Are of the best to be found.
SILVER LACED WYANDOTTES, Direct from Cornell of highest quality.

GOLDEN PENCILED WYANDOTTES from the best strains in America. Eggs from all varieties at \$3 per 15; except Silver Penciled, \$10 per 15. No stock for sale except Buff Rocks. White and Blue Belgian Hares at right prices.

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STANDARD POULTRY CRIT OF AMERICA.
THE PERFECTION SHELL MAKER AND GOLDEN YOLK PRODUCER.

White Quartz, 58 p. ct. Aluminum, 20 p. ct. Iron, 12 p. ct. Magnesium, 10 p. ct. DIGESTER. SHELL MAKER. YOLK MAKER. SHELL MAKER.

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CHAMPIONSHIP OF AMERICA

WAS AWARDED TO

Millville Poultry Farm's Buff Plymouth Rocks
AT BOSTON, 1902.

\$100 CHALLENGE CUP FOR BEST MALE.

Club cup for best cock, hen, cockerel, and pullet. Gold special for best cock and two hens, and numerous other specials went on our birds. 1st cock, 4th hen, 2d and 5th cockerels, 3d pullet, in a class of the 172 best Buffs ever shown, combined with our Philadelphia, Pan-American, and New York winnings, place our Buffs far in the lead. Our Barred P. Rocks, White and Buff Wyandottes, and Pekin Ducks have an equally good record.

Eggs from our **WINNERS**, \$3 per 13; \$5 per 26. Send for our free illustrated catalogue and mating-list.

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M. F. DELANO, President.

BOX H, MILLVILLE, NEW JERSEY.

You'd Have A Sweet Temper

and more money in your pocket
if you only used a

Mann's New 1902 Bone Cutter
It's a New Machine.

Different from all others. Do you know any other bone cutter which you can set to run easy, to cut as fast or as slow, as coarse or as fine as you like? Do you know any other which cuts hard bones as easily as soft ones? Which never clogs nor stalls? Which cuts all the bone, and all adhering meat and gristle, allowing none to waste or clog the machine? Which makes no splinters? Which requires no packing or sorting of the bones? New design, open hopper, enlarged table, new device to control feed. You can set it to suit any strength. Never clogs.

SENT ON TEN DAYS' FREE TRIAL

No money asked for until you prove our guarantee on your own premises; that our 1902 model will cut all kinds of bone with adhering meat and gristle, easier and faster and in better shape than any other type of bone cutter. If you don't like it, send it back at our expense. Free catalogue explains all.

F. W. MANN COMPANY, Box 61, MILFORD, MASS.

Also manufacturers of Clover Cutters, Granite Crystal Grit, Corn Shellers, Swinging Feed Trays, Etc.



BUFFINTON'S BUFFS.

We will sell eggs from No. 1 prize stock of Buff Wyandottes, Buff Leghorns, Buff and Barred Plymouth Rocks, Rose, Pea, and Single Comb Rhode Island Reds, \$1.25 per 13; \$3 per 40; \$6 per 100. Partridge Wyandottes and Partridge Plymouth Rocks, \$2 per 13; \$5 per 40; \$10 per 100. Incubator eggs from utility stock of R. I. Reds, Buff Wyandottes, Buff Leghorns, Buff and Barred P. Rocks, \$3.50 per 100; \$6 per 200. Send for circular.

ROWLAND G. BUFFINTON,

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Look! Look! Look!

Now is your chance. Buff Leghorns. (A. G. Arnold Strain) eggs, \$2.50 per 13; \$4 per 26. White Leghorns' \$2 per 13; \$3.50 per 26. Orders promptly filled by addressing,

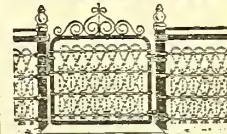
Jacob Christiansen, Perth Amboy, N. J.

We Have Nothing to Sell.

We have sold our surplus cockerels and need all our females to enlarge our plant. Shall have only a few **WHITE WYANDOTTE** eggs to sell this season. No order accepted for more than two settings from one party.

THE FRED. E. PILE POULTRY FARM CO., CLEVELAND, OHIO.

ORNAMENTAL LAWN FENCE

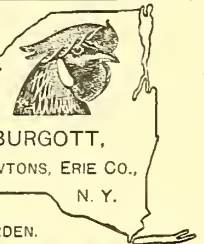


Buy from manufacturers direct and save the Dealer's Profit of 20 to 25 per cent. We make many designs, and sell more Ornamental Fence than any other two firms in the business. Why? Because we use nothing but the best material money can buy, and sell direct to the user at

FACTORY PRICES and guarantee any one can erect our fence. We make special prices to Churches, Cemeteries and large Parks. Send us your address. We will take pleasure in mailing you our large 32 page catalog on Ornamental Fencing, free. If you are interested in Farm Fencing send for our 42 page Catalogue. Address **Box 407 COILED SPRING FENCE CO., Winchester, Ind. U. S. A.**

BROWN LEGHORNS.

THE EMPIRE STRAIN
ALWAYS WINS.



GEO. H. BURGOTT,
LAWTONS CATALOGUE FREE. **LAWTONS, ERIE CO., N. Y.**

EXHIBITED AT
MADISON SQUARE GARDEN.

BLACK LANGSHANS...

At N. Y. City, 1900, 1st cock, 1st, 4th, and 5th cockerels; 1st, 2d, and 4th hens; 1st, 2d, and 3d pullets; 1st, 2d, and 3d exhibition-yards. Fine exhibition and breeding stock for sale.

DR. F. M. ROBINSON, Box 135, Pawling, N. Y.

COTTAGE FARM..

H. S. BALL, Proprietor,

BREEDER OF

Light Brahmas, Partridge and Buff Cochins, White and Barred Plymouth Rocks.

Also Buff Cochins, White Japanese and Black Breasted Red Game Bantams. Toulouse Geese and Pekin Ducks. Fowls and Eggs For Sale. Thoroughbred Jersey Cattle.

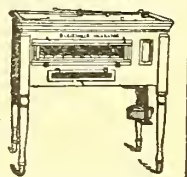
Shrewsbury, Mass.

BLAIRSVILLE INCUBATORS

Standard High-Grade Machines

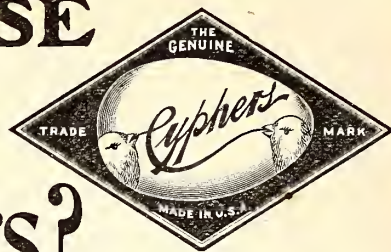
Thousands in successful operation. Scientifically constructed; self regulating; perfect ventilation; even distribution of heat; simple; safe; durable; graceful in appearance; easy to operate and will hatch every fertile egg, producing strong, healthy chicks. Mistakes cost money, take no chances, but buy an incubator that never fails and is as near perfection as can be attained. Our Brooders are the best. Catalogue free.

THE BLAIRSVILLE INCUBATOR CO., 30 North Street, Blairsville, Pa.



WHY DO YOU SUPPOSE

The Best Known and Most Successful
Poultrymen of America Use and Swear by



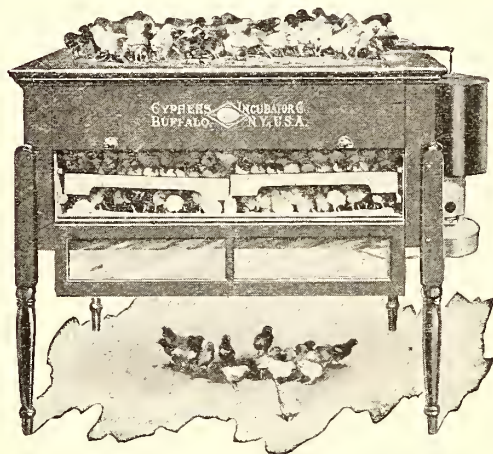
The Cyphers Incubators?

It is not because the Cyphers is the cheapest in price, nor because they love the manufacturers. **THEN WHY IS IT?**

UNQUESTIONABLY it is because the poultry business has developed until now experienced poultry raisers understand that to be successful they must be supplied with an incubator that will bring forth a robust chick from every hatchable egg. The Cyphers was designed to meet this demand and we have not felt justified in cutting down the quality of our goods to meet the prices of cheaper machines. A first-class article in any line of manufacture commands a fair price, and when quality and results are well considered, the Cyphers is to-day the cheapest machine on the market.

BIG PLANTS AND BIG MEN.

Following is a partial list of the great poultry plants of America, and of the country's foremost poultrymen who use the Cyphers and unhesitatingly pronounce it to be the best incubator on the market:



Some of the Big Plants.

Forest Lake Poultry Farm, Brown's Mills, N. J., uses 82 largest size.
Meadow Brook Farm, Dallas, Pa., uses 50 largest size.
Spring Lake Poultry Farm, Harrisburg, Pa., uses 43 largest size.
Oxford Poultry Farm, Oxford, Pa., uses 46 largest size.
Sussex Poultry Farm, Newton, N. J., uses 30 largest size.
Wildwood Poultry Farm, St. Louis, Mo., uses 30 incubators and brooders.
Grosse Isle Duck Ranch, Grosse Isle, Mich., uses 28 largest size.
House Rock Poultry Farm, Wollaston, Mass., uses 23 largest size.
J. F. Stocking & Co., Montvale, N. J., use 21 largest size.
Millville Poultry Farm, Millville, N. J., uses 20 largest size.
Hudson River Poultry Farm, Poughkeepsie, N. Y., uses 20 largest size.
H. Fell Poultry Farm, Sewell, N. J., uses 20 largest size.
Ernest Sommerfeld, Grunberg, Schl., Germany, uses 15 largest size.
The May R. Poultry Plant, Connersville, Ind., uses 12 largest size.
Fishers Island Farm, Fishers Island, N. Y., uses 12 largest size.
Messrs. High Bros., Blackpool, Lancashire, England, use 10 largest size.
Raterman Poultry Farm, Wellston, St. Louis Co., Mo., uses 10 largest size.
Willowcrest Poultry Yards, Goshen, N. Y., use 10 largest size.
Weber Bros., Wrentham, Mass., use 10 largest size.
White Leghorn Poultry Yards, Waterville, N. Y., use 10 largest size.
And scores of others who use 5 to 10 Cyphers Incubators.

SOME OF THE BIG MEN.

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Arthur G. Duston, Marlboro, Mass.
Knapp Bros., Fabius, N. Y.
E. B. Thompson, Amenia, N. Y.
Bradley Bros., Lee, Mass.
Samuel Cushman, Bristol, R. I.
Philauder Williams, Taunton, Mass.
H. J. Blanchard, Groton, N. Y.
J. W. Shaw, Brockton, Mass.
W. S. Russell, Ottumwa, Iowa.

Geo. W. Mitchell, Bristol, Conn.
W. B. Gibson & Sons, W. Alexander, Pa.
Henry Steinmesch, St. Louis, Mo.
Aug. D. Arnold, Dillsburg, Pa.
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C. F. A. Smith, Waltham, Mass.
Dr. O. P. Bennett, Mazon, Ill.
U. R. Fishel, Hope, Ind.
L. C. Piser, Shushan, N. Y.
O. E. Skinner, Columbus, Kan.

Sharpe Butterfield, London, Ont.
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F. W. Richardson, Hicksville, O.
W. H. Overbaugh, Hanover, Pa.
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M. F. Norris, Lexington, Ky.
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Willis J. Storke, Groton, N. Y.

ALSO HUNDREDS OF OTHERS.

Remember that the **Patent-Diaphragm, Non-Moisture, Self-Ventilating and Self-Regulating CYPHERS INCUBATOR** is now used on no less than **26 Government Experiment Farms in the United States, Canada, Australia, and New Zealand**, where the professors of agriculture and poultry experts use it to demonstrate to their annual poultry classes the scientific principles of artificial incubation; note their fac-simile letters of endorsement on pages 65-83 of Complete Catalogue. Furthermore, the Cyphers is by far the best incubator for the beginner, for the amateur. See the **Hundreds of Specimen Testimonials** in Complete Catalogue, particularly on pages 165-180 inclusive.

Each and Every Cyphers Incubator is sold with the distinct understanding that it will do satisfactory work in the hands of the purchaser, or it can be returned within ninety days and the price will be refunded.

Elegant 180-page (8x11 inches in size) **Complete Catalogue** for 1902, containing over 200 half-tone reproductions of photographs of the largest and best-managed poultry plants in the world, sent postpaid to any address for 10 cents in stamps or silver. Ask for Book No. 6, and address nearest office.

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NEW YORK CITY, N. Y.,
8 Park Place.



A National Journal Devoted to Poultry, Pigeons, Birds, Etc.

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VOL. VII. No. 6.

WASHINGTON, D. C., MARCH, 1902.

FIVE CENTS.

GAME FOWLS

From the Kulm of India to the Exhibition Game.

All Breeds, their Varieties and Types Considered.

[CONCLUDED.]

"The Old English Game fowl—The bird known under this name stands by himself alone. In lineage none may compare with him, since his origin is absolutely lost in sheer antiquity, and when we do first hear of him, he is already of noble blood amongst other fowls. He has for generations been known as 'the English fowl'—Buffon writes of him as such; and he has stamped his very name upon our speech, so that when we want to express a dogged courage that does not know how to yield, no matter what hopeless odds there are arrayed opposite, we say that our soldier heroes stood 'game' to the last against their foes. He has earned the distinction well, lifting the name out of the very gutter—for it was first given him as being identified with 'sport' or 'gaming' in the old sense, so that household bills of James I. contain entries for the expenses of 'cocks of the game for his Highness's recreation'—as he fought for his owners with the courage of his race; until at last the higher meaning of the word came not from them who had bestowed it, but from the bird who fought so undauntedly for a meaner master's stakes.

"Let none suppose that all summed up in this was unmitigated evil. Rude times require rude virtues, and it will not be forgotten that the original of the very word virtue itself, stood equally for virtue and for courage amongst the Romans. Thus it occurred naturally, that nearly all primitive nations and civilizations deliberately sought to learn from the stubborn valor of the fighting cock. Every schoolboy will remember how Themistocles revived the courage of his soldiers by an example before their eyes of two cocks fighting, and afterwards instituted cock-fighting festivals. These festivals

the lads were expressly directed to attend in order that they might learn courage; a course approved by such moralists as Socrates and Solon. The Romans followed the same example. Of more primitive peoples, some of the earliest Chinese records mention cock-fighting; in India there are notices dating back to at least 1000 B.C.; and the Persians had practised it for centuries before the Greeks learned from their example. Cock-fighting has also been traced amongst the Phœnicians; and some Jewish authorities believe that the Assyrian war-god Nergal was symbolized by a fighting cock, but this seems doubtful."

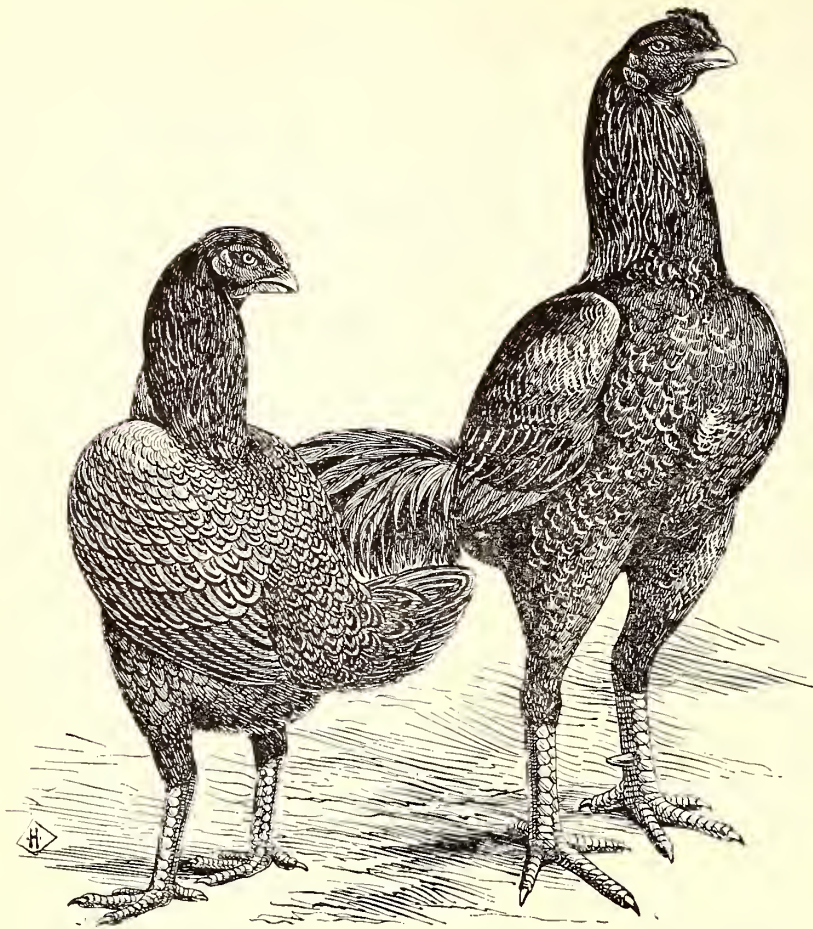
We take the above from the pen of Mr. Wright, part of which comes to him from the pages of history, but his manner of recording it pays sweet tribute to this historic breed.

"This noble breed is now widely exhibited and still more widely bred, for its beauty and its quality of flesh. In combination of grace with agile strength it is unequalled, and the qualities for which it was bred produced also the utmost proportion of muscle (flesh) in the best places for the table, so that in wings and breast-meat it had no superior. It found its way into the exhibition-pen in the earliest days of poultry shows; but there, unfortunately, the changes of fashion of which other instances have been quoted already, played havoc with the breed. At first changes were slight, the birds being only slightly more tail and 'reachy' which was generally admired; but the change went on, until the breed had been transformed out of all recognition. At last a reaction set in, and in 1882 a class for the 'old' breed was offered at Cleator Moor in Cumberland, followed by classes with a special judge at Wig-

ton in 1883; ever since which time, classes and popularity have increased continuously. In 1887 the Old English Game Fowl Club was formed, to encourage and watch over this noble breed, the first secretary being Mr. J. W. Simpson, at that time of Silloth, in Cumberland, a county which was long the headquarters of the Old English Game.

"For the following article on the fowl as now bred and exhibited, we are indebted to Mr. Herbert Atkinson, of Ewelme, Wallingford, one of the vice-presidents of the Old English Game Fowl Club:

"The Old English Game fowl or British Game fowl of Buffon is a great contrast to the modern exhibition, or fancier's breed of Game, in almost every particular. It was owing to the modern variety having been so continuously bred for show points for a considerable period as to have very much modified nearly all its useful qualities, that some fanciers began, about 1885, to try to revive the breeding and exhibition of the Old English breed of Game fowl, as it used to be bred for cock-fighting, when that sport was recognized as one of the national and even "royal" sports of this country, ranking even before horse-racing in importance, antiquity, and popularity. This sport was suppressed in England about 1835, and some fifteen years later Game fowls began to be exhibited at poultry shows. By breeding for certain and entirely fancy points, and by selection, and crossing with alien breeds, the modern Game fowl had been produced. It was necessary, therefore, to seek out the old breed again, either from old breeders who had kept them pure, or from cock-fighters. These old breeders, and "cockers" had all these years kept the breed in its purity of blood and vigorous constitution, never exhibiting, never selling, merely keeping them solely for love of the old breed, and it was, therefore, at first almost impossible to obtain them. However, one way and another, many birds of good blood were obtained and exhibited; their useful qualities were soon re-discovered and appreciated by several modern fanciers; and from the first shows where classes were provided for them in the 'eighties, they have increased in numbers by leaps and bounds, until at the present time they form some of the largest classes at all the



CORNISH INDIAN GAMES.

important shows. This is less a cause for wonder when we consider their great beauty and many useful qualities, to say nothing of the liking of most Englishmen for anything thoroughbred; and nothing can exceed the thoroughbred race-horse and the Old English Game cock in purity of blood, unless it be the Arab horses and the native Indian Game, or Aseel, as we now call him. While other breeds of poultry and horses, etc., may be what the Americans call "standard-bred," they can not trace a pure pedigree for any great period of time.

"In color of legs much latitude is allowed, the rule in breeding being that the eye, beak, and legs should match in color. In Black-Breasted Reds, for instance, white, yellow, carp, etc., are allowed to compete on an equal footing, each breed having its admirers, and being equally good and handsome. The white-legged ones may have also gray or daw eyes, as not only have some breeds (the Lord Derby's always had them), but they match the legs and beak, and the white under-plumage of these birds, which also usually shows a few feathers wholly or partly white, in wings or tail, all in character with it.

"The colors in Black Breasted Light Reds are much the same as in the modern Game, except that in the Old English the colors are richer and more brilliant, and may be darker, as some little latitude is allowed. For the hens, partridge-color is to be preferred to wheaten, the latter being used to produce bright hackle and saddle in the cocks, and if persisted in, also produc-

ing mealy breasts, while those bred from good partridge-colored hens produce sound-colored cocks, though a trifle darker in color.

"Brown Breasted Reds may have clear brown or robin breasts, or brown shaded or marked with black; the hackle and saddle are dark red or dark orange, and the eyes and legs dark. The hens to match them should be a rich, dark, mossy brown all over, or they may be black with a tinsel hackle; of course, legs, eyes, and beak to match the cock.

"The Silver Duckwings are in color the same as the modern Silver Duckwing Game, or the Silver Gray Dorking, and should be kept to their own color in breeding, and not crossed. The Yellow Duckwing may also be bred from Duckwings entirely, or can be produced by crossing with Black Breasted Reds, which will produce bright and rich-colored cocks, using either a Duckwing cock with a Partridge hen or a Black Breasted Red cock and Duckwing gray hen, though nearly all the pullets bred this way will show ruddy wings, which are fatal in the show-pen.

"Duns (or, as they are improperly called, "blues") may also be crossed with Black or Brown Breasted Red cocks; the former with a blue hen producing Dun Breasted Reds or "Blue Reds," as fanciers are apt to call them, and a Blue hen with gold hackle and a Robin Breasted Red cock producing excellent "Red Duns."

"Pyles are much like the modern in color, but brighter. Some prefer the white breasted birds, but the streaky

breasted are also very handsome. The color is liable to become lighter unless an occasional cross of the Black Breasted Red is used.

"Blacks and Whites should, of course, be bred from pure self-colored birds.

"Spangles are very popular in the show-pen at present. They may be bred from Spangles, or as a cross with Black Breasted Reds, which also produce very good Red Spangles.

"The Black Breasted Black Red is a breed that is considered one of the best and purest strains, and one that should be revived if not too late. The cock is a clear, vivid, dark red free from spot or streak, on hackles, shoulders, back and saddle-feathers; while his breast, belly, tail, primary and secondary wing-feathers, his thighs, legs, beak, and eyes are jet black, and his under-plumage black all over, also beneath his hackle; the hen to match him is a dark partridge, brick breasted, with hackles red above, and black beneath, and beak, eyes, and legs black also. No breed was more celebrated than this in the old days, and it is much to be regretted if it is allowed to disappear from amongst us.

"The Henny is also another most useful breed, being, perhaps, the best layer among Game fowls, and certainly in the front rank for the table. It is a very ancient breed of Game, and perhaps has been kept more free from crossing with other Game fowls than any other breed. The cocks are feathered like the hens; hence its name, and the more hen-like the plumage the more are they entitled to claim purity of blood."

"There is no doubt at all as to the origin of the modern exhibition Game fowl. When cock-fighting became illegal, and poultry shows were in their early popularity, the very same fowls that had been bred for fighting in the pit, were placed in the exhibition-pens. The Old English Game fowl of the preceding chapter, was also the exhibition Game fowl as known at that day. The colors shown were the same colors, and the fowls were the same fowls; and it was, in point of fact, not at all unusual for the many who still occasionally practiced cocking on the quiet, to exhibit birds which had fought, or to fight birds which had been shown with success. And so long as exhibition was chiefly confined to the old school of Game breeders, the birds continued to be shown with but little change.

"But as Game fowls began to be shown more and more by persons who never fought them nor dreamed of ever doing so, change inevitably crept in, from causes fully explained in the earlier chapters of this work. Judging, as well as breeding, no longer remained in the hands of the cockers, and details of mere appearance began to be more studied, both in regard to color and form. In regard to both points, change at first was very moderate, and it crept in gradually, by insensible degrees. Exhibitors and judges understood that the Game fowl was different somehow from the breeds which were often termed in comparison the 'heavy cart-horse style'; the tendency was natural to prefer somewhat the taller and more reachy birds; and to a certain extent the modified type did, especially while confined to the earlier and more moderate degree, appeal to even the general public with a beauty of its own, and was welcomed by many for the very reason that it was somewhat distinct from the original cock-fighting model.

"Change has not been confined to form alone; it has affected color also profoundly. At first the birds had been exhibited in their natural colors, in natural sex-relation. In Black Breasted Reds, for instance, the darker red cocks and the rich partridge hens appeared as they were bred from single-mating in the old Derby and other strains; but the brighter colors were preferred, and very soon the bright red cocks and light partridge hens were found to breed brighter and better from double-matings. So also the Brown Breasted Reds began as really brown breasted birds; but preference for bright color and precise lacing gradually produced a new color containing only black and lemon, with no brown in the breast at all. It is, however, unnecessary to discuss this phase of the matter further. As has already been shown, the change has in the end been so great as to create a reaction in favor of the older breed, which has again returned to popularity, now as an entirely distinct and different type. But it is remarkable that while the general public unmistakably recognize greater beauty in the old Game fowl, the points of the modern show bird also possess a peculiar fascination for those who can understand them, and call forth in them an enthusiasm which is scarcely paralleled in any other breed. Every year or two some bird changes hands for as much as £100, which can probably not be said of any variety beside; and the competition at Birmingham Show, which in Game fowls is the recognized great event of the year, evokes a kind and degree of interest amongst the circle of breeders, which in its way is unique.

"The development of the exhibition type of Game fowl has to all intents and purposes excluded from this department of competition many colors and markings formerly shown, and which are still to be found in classes for the Old English breed already treated of; and the present recognized varieties are now comparatively few and well defined. The chief are those known as Black Breasted Reds, Brown Reds, Duckwings, and Pyles; of any others, occasionally shown, very brief mention will suffice."

THE BLACK RED GAME.

This variety stands in the lead all over the world, and it would be rather a waste of time to describe this style of Game fowl to our readers other than to mention a few points of excellence that must be obtained to rank with the best; the first of these is what we call station, and with the majority this means length of leg. We see many at our eastern shows that readily poke their heads through the top of the exhibition-coop to look about or to crow, when in proper poise the eye of the male is directly over the line of the shank. The original type was much like our Brown Leghorn males in shape and carriage.

The unnatural carriage of the present type has not pleased a large army of English fanciers and the result has been the revival of the Old English Game about which we have quoted so fully above. The recent contention as to the possibility of raising such Games as the present type of standard Games, has had a lively inning in the *American Fancier*; at the same time real good ones are quite scarce and we do not see any very large number of them with us in a whole year, but those who are fortunate enough to produce a few of them are able to dispose of them quickly at a better price than is paid for the average

cow or horse, and surely they can not call for equal trouble and expense in the rearing as must go to the bringing of either the cow or the horse to selling age.

THE BROWN RED.

The Brown Red Game must be equal in form to the Black Red in every particular, in color is lemon where the other is red, the end of the hackle striped with black over the body as are the saddle-feathers; the face, jaws and comb dark purple or black, the breast black laced with the lemon-color; this lacing when nicely laid on is quite an addition to its beauty. The female is a clear black with a lemon neck-hackle that is striped with black and the breast is laced with lemon.

THE BIRCHEN GAME.

The Birchen Game is the same as the Brown Red only its colors are black and silvery-white. Where the Brown Red is marked with lemon the Birchen is silvery-white. This coloring is quite beautiful when rich in contrast of strong colors, but few of them are seen, but in the Game Bantams of the same variety a number of beautiful specimens are shown. It would be of advantage to any fancier to handle these two varieties and push them to the front, but so far the breeders of this country do not display much interest in the handling of Game fowls.

DUCKWING GAMES.

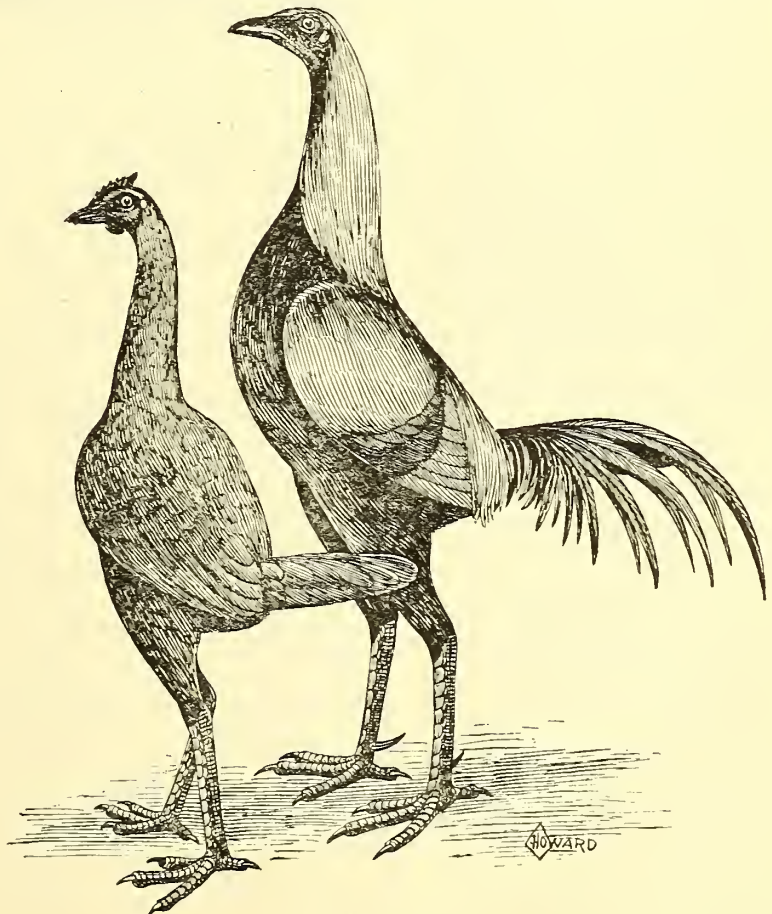
The two colors in Duckwing Games are entirely too closely allied in color to become popular; the one is just a little darker in shade than the other and a single pair will often produce chicks

that can (some of them) be shown in the Golden Duckwing class, the others with the Silver Duckwings. The Golden males are marked with a golden or straw-color, the others silvery-white; the female of the one is a darker shade of gray than the other, the breast of the Golden a deeper or darker shade of salmon than is the breast of the Silver. No more beautiful hen is shown than a clear, clean Silver Duckwing Game female. Some mate Black Red cocks with Duckwing hens to produce Golden Duckwing cockerels for exhibition. The pullets thus obtained may be bred to good-colored Duckwings for producing exhibition Golden Duckwing pullets. All these matings tangle the blood lines to such an extent that none but the expert succeed with these matings.

Good-colored Duckwings of either variety when bred together produce a reasonable number of both males and females of good average quality and the longer this is continued in the better will they produce if properly selected, but the handling of these two varieties is a study that will call forth the best efforts of any fancier to succeed in the production of good quality.

PYLE GAMES.

This is a White Game with Black Red markings. The body-color of the male is white and the hackle and top-color is of red or crimson, while the hackle is orange or light red, the female white with salmon breast, the edge of hackle-plumage golden. It is an almost endless task to keep intact the colors of the Pyle Game and at the same time hold the yellow shank; for while the Standard allows either yellow or willow



BLACK BREASTED RED GAMES.

shanks, the latter is in bad form. The necessity of using Black Red males to keep up the color of plumage has injurious influences over the shanks and thus keeps one in continual dismay as the chicks are hatched.

No more beautiful fowl is shown than the Pyle of good shape and color, and those who understand their breeding take continual delight in their production. If once you have your form and color right breed them together so long as they will give good returns; after that the Black Red blood must be resorted to.

BLACK AND WHITE.

Pure Black and pure White Games of the same high qualities as other Games are now produced. They must have the form and the color to perfection or they can not be considered as up to the proper standing of Games as they should be.

AVOID TROUBLE.

Keep Clear of *The* Hot-Weather Pest by Prevention.

There is no need of having lice bother fowls during any season of the year. When this trouble exists it is the fault of the one having charge of the fowls, and from no other cause than improper care. When told of a henhouse being infested, the only conclusion is that the person or persons in charge have been negligent in their care. It is not the hens' fault; were provisions of prevention available there would not be one of these insects found upon their bodies, as their instincts lead them to thorough cleanliness; when deprived of the means it is not their fault when not free from the vermin pest; therefore, carelessness of those in charge is the only cause of the trouble. Were our horse-barn or cow-stables so infested, it would create much talk throughout the neighborhood, and at the same time the condition may exist in the poultry-houses without even a comment. One neighbor has been head to say to another, "Our henhouse is so full of lice the hens will not go into it any more," with the reply, "Well, ours is almost as bad, but we hope to fix it up after harvest." Such a state of affairs is willful waste of life and property, needing prevention.

There are poultry-plants where many thousands of old and young fowls are housed and cared for, with not the least sign of vermin of any kind. Hen-lice or insects of any kind about the henhouse are always the outcome of willful neglect. Some may hope to persuade themselves that it is only a natural consequence connected with fowl keeping, but it is not; negligence in the only cause. To clean up once in a while will not do for the henhouse any more than for the barn; constant looking after is required *all the time*.

With coming warmth of weather this evil lurks in every house where hens have been kept, under every roost, in every box and crevice where the germs can hide they await the coming of hot weather to spring into life and multiply themselves. To prevent this, the hen-houses should be thoroughly cleaned of every particle of dirt of all kinds, nest-boxes and floors should be absolutely cleaned of all dirt and rubbish. Every roost, crack, and crevice should be thoroughly painted with one of the following preparations, which, if properly applied, will undoubtedly prevent all trouble in this direction:



Second-Prize Barred Plymouth Rock Pullet, Boston, 1902, bred, owned, and exhibited by James H. Woodward, Dunstable, Mass.

First. Any good liquid lice-killer or paint for their destruction.

Second. Kerosene or coal-oil is very good to use as a paint for all roosts, cracks, crevices, or nest-boxes; when one-half pound of naphthaline balls is dissolved in one gallon of the oil it greatly improves the application.

Third. Crude petroleum with camphor balls or naphthaline balls, (sometimes called tar balls,) dissolved in the petroleum, one-half pound to the gallon, is an excellent solution for painting all places likely to become infested.

Fourth. Whitewash made of lime, with kerosene oil or turpentine mixed in is very good. When this preparation is used all cracks, crevices, roosts, and nest-boxes should be well painted with either preparation No. 2 or No. 3. Lime-wash is splendid for the henhouse at all times, but alone it will not destroy the lice and germs; the other preparations must be used for this.

Fumigation is also very valuable. When this means is employed, all the fowls should be turned out of the house, which should then be tightly closed so that no air can get in or out; two or three sulphur candles should first be lighted and placed inside and let burn all day. The fumes from these candles will kill all insect life, but will not kill the germs or eggs that may be deposited. Failure often comes from thinking that the house is free when whitewash is used, as this kills all the lice; the germs already deposited being overlooked.

The bodies of the fowls should be treated also with insect-powder to insure success in ridding them of any pest. If only a few fowls are kept, each one should be caught and held over a box that is lined with paper in order to save all the powder that falls from the body. The fowl should be held by the legs with head downward, the powder being well worked into the feathers with the fingers, and into the skin all over the body.

Any of the following preparations are recommended: Any preparation sold for this purpose, or Dalmation Insect-Powder, sold by the pound at drug-stores; this is improved by mixing with it equal parts of fine powdered tobacco. A mixture of fine slacked lime and sulphur, equal parts, is good, but it has an inclination to stick to the skin and irritate any sore spot that it may come in contact with. This lime and sulphur mixture is splendid to mix into the dust-bath. All fowls should have a covered dry place where they can take a dust-bath at any time of the year. This should be well supplied with fine, dry earth, in which they can dig and dust during the most inclement weather.

The use of these precautions during the early spring will insure against insect trouble through the entire summer, providing the roosts, cracks, and crevices are painted once or twice a month with some one of the solutions above mentioned. The use of preparation No. 3 will also help drive the pests from the

bodies of the fowls if the roosts and nest-boxes are well painted with it at least once a week for a month, after that once in two weeks.

Our most practical handlers of fowls keep clear of hen-lice in and about their farms where large numbers of fowls are kept. Their methods are guided strictly by rule. The law of cleanliness is never ignored by them. In this way only are they kept clear of insect pests, which are responsible for three-fourths of all our trouble with poultry of every kind.

The season's work begins in the fall, with the burning of sulphur candles in every house used for fowls; after these houses have been thoroughly fumigated with these sulphur candles, the entire roof and side-walls are swept clean, nest-boxes and every crevice are cleaned with care; the whole litter and dirt of the floors removed; in fact, the whole inside entirely cleaned out as clean as it is possible to make it. Then every roost, crack, crevice, nest-box, and spot where a louse or its germ could hide, is painted with a crude petroleum mixture; after this is thoroughly done the whole inside is coated with lime-wash well saturated with kerosene; after this is dry the floor is filled in with nice, fine soil, the roosts and nest-boxes are again painted with the crude oil mixture, then the houses are ready for the hens.

Before the fowls are placed in these coops their whole bodies are well covered with insect-powder. The fine, dry soil on the floors furnishes the very best dust-bath. For the first week the roosts are painted each evening prior to roosting-time with the same mixture to insure the death of every insect and germ. Each coop and pen that has been used about the place for either a sitting hen or a brood of young chicks is painted inside and out with the same mixture and piled away for the next season. Thus, as far as possible, every place where a fowl has been for the whole summer is thoroughly cleaned of all impurities by the use of this preparation.

During the winter the roosts are painted once every month, and the droppings are cleaned from the dropping-boards and roosting-house floor each day. The covered-run system is used, and the litter and dirt are raked up and cleaned away as often as is necessary to keep these covered runs clean and sweet. As spring approaches the small coops and houses that are used for sitting hens, hens with young chickens, also the colony-houses that are used during the summer are again painted inside and out with this mixture, No. 3, and the outsides are given a coat of red iron paint, mixed with oil. No whitewash is used with these coops. The inside is simply painted with the mixture.

When hens are set the inside of the box used for the nests is thoroughly painted with this mixture; clean, fresh hay is used, and great care is taken to dust the hen well all through her feathers with the insect-powder before she is placed upon the nest. This is repeated after ten days, so there may be no possible chance for any insects to live on her body. Before the hen and her chicks are removed to one of the small brood-coops, the inside of the coop is again painted with the mixture. Premises kept under these precautions have been visited, through and through, without a semblance of lice about them.

Constant watch is kept over the hen-houses all the spring, and the roosts

and all cracks and crevices are painted as often as is considered necessary to insure against the pests; in such plants it is that the average egg-yield runs over 160 eggs per year, and many pens will come close to 200 on the average. While this may seem considerable labor, it pays well on the farm where many thousands are raised each year and will pay in proportion when only a few are kept.

On a farm where one or two hundred hens are kept, it might be presumed that a total of fifteen days per year would keep the premises in fine condition; but to make doubly sure, it might be said thirty days are so allotted; which computed at two dollars per day, sixty dollars would cover the expense of keeping the poultry and surroundings in a thoroughly clean and healthy condition. The fowls and their quarters are thus rendered a pleasure to look upon, saying nothing of the profit yielded thereby. A flock of 200 hens thus looked after will produce from 125 to 140 eggs each year, where without this attention their average would be from seventy-five to ninety eggs per year, showing a total increase of fifty eggs per hen per year. If sold for one cent each they would bring one hundred dollars more than the lesser yield, far exceeding the cost of labor.

It may be doubted, however, if many of those who read this article secure as many as 10,000 eggs in a whole year from 200 hens. The average conditions of the farm-kept fowl are very well known, and it may be doubted if one flock in fifty, as usually kept, produces an average of fifty eggs each, or 10,000 eggs per year from 200 hens; while the facts are that 200 hens properly kept should produce not less than 125 eggs each or 25,000 per year. Are there many of those who keep hens on the farm who do so well, or even half as well, as this?

Keeping a few hens or a hundred hens or two hundred hens, or more, is simply a practical business problem. The farmer who gives proper care to his garden always has plenty of vegetables for his home and to sell. Those who have no time to spare for such work buy their early potatoes and vegetables at the high prices; those who plant their crops right and attend to them properly do well; cows well looked after return a profit; just so with the hens. They will do just as well with proper treatment. When cared for with the object of having a large return from them it will be fulfilled; when cared for with the object of obtaining a few eggs now and then, the desired result will be had. But as soon as warm spring-time comes, when they care for themselves, then they begin to lay, for the simple reason that they find for themselves what they were deprived of during the winter months.

Winter Layers.

In selecting your laying hens it will pay to keep over all for winter layers that change their coat quickly, come through the molt in good shape, and show vigor and an indication of returning to egg-production at once. Those that molt slowly and look bad about the head and comb will not pay as winter layers, for more than likely they will not begin to lay before March. Some of these may be your very best stock hens; if so, select the best of them and pen them alone. Do not feed them for eggs, simply keep them in

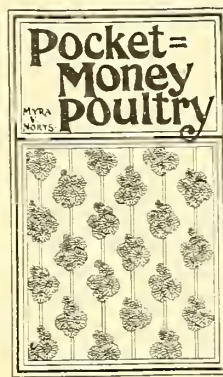
good condition till they show signs of laying, then begin to feed for eggs. One of the very worst plans is to allow the active laying stock and those still in molt and not laying to live together in the same pens or yards. Yard up those that are laying alone and the others to themselves. All will do better when thus separated. When they all run together on the farm this can not be done very well, but when they are kept in small flocks for laying all these conditions count for or against a paying egg-yield. Those who look after these little points win in the end.

The Effect of Insect Powder on the Chick.

The effect of insect powder on the chick requires consideration. Sulphur is not good for them. The hen's body when dusted with sulphur prior to the chicks' hatching is liable to retain some of the sulphur, which if it gets into the chicks' eyes injures them by making them sore and closing them so tight that they can not see their food. Powdered anise-seed is good to use about the small chicks when any powder is needed for them; this will not injure the chicks yet will destroy the lice.

For head-lice, paint the top of the chicks' heads and under their beaks and gullets with any kind of oil; sweet oil, olive oil, or melted lard is good. Kerosene oil is injurious, as it blisters the chicks' eyes, making them sore and is no more effective than the other oils in killing the vermin. When painting under the wings with oil is found necessary, a very small, flat brush with stiff bristles is the best thing to use.

Pocket-Money Poultry.



The fourth book of THE FEATHER'S series is Myra V. Norys' latest production, "Pocket-Money Poultry." This book was written primarily for women who wish to supply themselves with pocket-money by keeping a few fowls. It begins at the beginning of the subject, goes into the details, points out the essentials, and makes the course of the successful poultry-raiser so plain that any intelligent person can follow it without difficulty.

The experienced poultryman will, also, read this book

with both pleasure and profit. There are none so old and experienced but that they have still much to learn. Perfection in this as in other occupations is hard to attain, and those who are doing the best still find room for improvement.

"Pocket-Money Poultry" has the following interesting chapters: Women—Fowls—Money, How Much Capital? Choosing a Line of Work. The Breed that Wins, Artificial and Natural Incubation, Satisfactory Coops and Brooders, Mothering Chicks, The First Season's Work, The First Season With Fancy Poultry, Confinement or Freedom, The First Poultry-House, Feeding for Eggs, The Embryo Chick at Testing Time, Ducks and Geese, Turkeys for Pocket-Money, Squabs for Pocket-Money, Pocket-Money Possibilities, Pocket-Money Pointers, Supplementary Food Supplies, The Possible Value of Caponizing. Price, 50 Cents.

GEO. E. HOWARD & CO.,

305 Tenth St. N. W., Washington, D. C.

INFERTILITY.

Can It Be Overcome?

From all over the United States, Canada, and England attention is continually called to the alarming increase of the infertility of eggs used for incubation. The fact that many of those who sell eggs for hatching decline to have it known just how bad it is in their individual yards, makes it difficult to obtain information that might be valuable; at least it would satisfy the public and purchasers of eggs that these conditions prevailed throughout the land, and prove beyond all question that no one man or set of men had any better results than the individual who felt disgusted at only having three to five chicks from the fifteen eggs that cost him five dollars.

Thousands of duck eggs are passed through the incubators each season. The greatest care and attention have been bestowed upon this culture. Every plan or method that has been presented has been tried, attempts have been made to improve upon the past each season, but so far not to exceed twenty-five per cent of *all* the duck eggs placed in incubators or under hens or ducks have produced living ducklings. Some advance the theory that the breeding ducks that have water to run to produce the best; others say more salt, or more green food, or keep more or less drakes with the flock, and many other plans are presented, all of which when tried have not improved the per cent of living ducks.

HENS' EGGS.

That we may know what others are doing we will give the conditions as they have existed since last fall. During October and November last in one broiler plant the per cent of hatch ran from fifty-five to sixty per cent of living chicks from all eggs placed in the incubators. In December the per cent ran down. It was worse in January and February, but little better in March. Up to May 1st the average was about twenty-five per cent of living chicks from all the eggs placed in the incubators. From October 1st to May 1st, this includes seven months, all the eggs were gathered from the fowls kept on the farm for the purpose of producing the eggs

for incubation. The same people had them in charge, and the same incubators were in use all the time.

Another party tells me he placed over fourteen hundred eggs in his incubators from which he got less than six hundred chicks. Just how many over the fourteen hundred he had put in the machines he did not say, nor would he be pinned down to the exact number of chicks he got from them. We bought two hundred incubator eggs from a party who claimed he was getting fifty-five per cent hatch at home. Fifty-five of the eggs proved to be fertile, and twenty-six produced living chicks. Eggs sent from four sections of the country hatched as follows:

26 Wyandotte eggs	18 chicks
30 Wyandotte "	6 "
26 Plymouth Rock eggs . . .	9 "
200 White Leghorn eggs . . .	54 "

282 eggs produced 87 chicks

The result of these eggs that came from one hundred to three hundred miles gave thirty per cent living chicks.

We have visited a number of yards where Asiatic, American, and Mediterranean breeds are kept, and the information gained has satisfied us that not to exceed twenty-five per cent of all the eggs placed in incubators and under hens have produced living chicks. About one-half the eggs have shown fertility, and about one-half of these have died short of maturity. The eggs under the hens have done but very little better than in the incubators, proving that the method had nothing to do with the result. One party sent fifty eggs to Canada that produced thirty-four living chicks, while during the same period at his own yard eggs under hens only produced about twenty per cent.

Conclusions reached in these investigations have fully satisfied us that eggs carefully packed and sent by express across the country will hatch just about as well as if set at home. No doubt they can be and are at times injured in transit, but if properly packed such is seldom the case. The two leading questions are what causes the larger per cent of clear or infertile eggs, and why do one-half at least of those that contain life die during the three weeks of incubation, whether under hens or in the machines?

EXTRA-VAGANT CLAIMS.

We noted the other day the claim of one party that eggs sent out were giving his customers ninety per cent hatch, others publish ninety-five per cent hatch, all of which we are ready to call bosh. It is quite time that a little more truth should be mixed in with the hen business, especially the branch of eggs for hatching, and the per cent of hatch. Once in a while after warm weather sets in a few batches of eggs will produce almost full returns, but this is not the case between January and May of any year. We have extended this investigation over two seasons and find, when the facts can be obtained, that the hens that run on the farm do but little better on the average than those kept in yards for breeding. The condition is about the same all around.

The whole world hears of the cow that brings forth four calves at one birth. If a hen steals her nest and brings out fifteen chicks from fifteen eggs the result of nature is spread broadcast, but what of the hens that hide their nest and only bring out six or seven from fifteen eggs? What of the cows that never produce a calf, or that go to the butcher for the



FIRST WHITE WYANDOTTE PULLET,
READING, PA., 1900.

First Hen, Sanatoga, Pa., 1901. Bred and Owned
by W. W. Kulp, Pottstown, Pa.

trouble they give? It is just the same in all matters. We hear of the extraordinary occurrences but the every-day matters pass unnoticed. As you pass the farms stop and ask how many hens have been set and how many chicks they have and see for yourself what the per cent of hatch will prove to be.

THE ATTRIBUTED CAUSES.

Many reasons are given for this infertility. The chief among them is over-fat stock and inactivity. Both or either of which may be or may not be the cause. There is no doubt but that many fowls, in fact animals of all kinds, become too fat, but the per cent of such is small. We know full well that a lot of hens that lay about all fall and winter and do nothing but eat corn get so very fat they will not lay many eggs, but it is a question whether their eggs will not hatch as well as others. There is no danger of a lot of fowls that must hunt for their living about the barn all winter becoming too fat. It is true they lay fairly well, but investigation does not prove conclusively that their eggs hatch much better than others.

One has but to go to the farmer at this time and see how few chicks are in sight to fully satisfy himself that farm fowls have done very poorly in this. There is no use of longer harping on these time-worn theories of too fat to lay fertile eggs, for all the hens in the world are not over-fat, neither are all the fowls inactive, and the result of the hatch throughout the land will not exceed the twenty-five per cent production of living chicks from all eggs put under hens and in machines.

CLOSER ATTENTION.

Personally we hold the opinion that about as many chicks the world over are produced from a given number of eggs at this time as ever have been produced. Fifty years ago there were but few hen-houses. Hens laid but few eggs in winter. Easter-time was heralded as the season for fresh eggs, no one thought of young chicks till the hens became broody, and this was seldom prior to April 15. Early-May chicks were rather a surprise, and an Easter brood was a novelty in the neighborhood. If you will ask the old people as to this they will tell you that the early chick was seldom seen in their day.

With the extensive distribution of our



R. C. WHITE LEGHORN HEN.

"Champion of East."

Winner of seven straight firsts, including Sanatoga, Philadelphia, Dec., 1901, and New York, 1902. Bred and exhibited by W. W. Kulp, Pottstown, Pa.

agricultural press comes the opportunity of an interchange of thought, and those most likely to be ventilated are our troubles. We hear the tale of the ninety-five-per-cent hatch in January, made in some wonderful machine, and do not stop to consider, but chase the will-o'-the-wisp from point to point in search of how to make hens lay every day and each egg produce a chick.

Hens during May and June lay quite as many fertile eggs now as ever they did. No records can be produced to prove that eggs ever hatched any better during the winter months than now. This extensive winter hatching, is of recent origin. It came with the incubator, and the early-spring broiler is the most profitable of all fowls. If it were possible to produce a salable broiler from every egg placed in the incubator, squab broilers would not be worth one dollar per pair in the markets in April and May. We do not believe that the conditions at this time are any worse than formerly. The change is the demand for eggs that will hatch in unreasonable times of the year when the conditions are unnatural.

INFORMATION NEEDED.

First we should consider fully whether or not eggs ever did produce better during the winter months than they do at this time, and if so, how much better. Don't draw your conclusions from three or four fowls that were kept in a warm woodshed by your grandmother, for the same number so kept at this time would do splendidly. Draw your conclusions from numbers; then, if possible, we should try to discover why the eggs do not hatch better the first four months of the year, also why they do hatch the best from May to December and why they hatch better during the fall and early winter than during the winter and early spring. Then several conditions could be made a life-study by some competent person the result of whose labor might benefit the world.

NUMBERS NOT CONCLUSIVE.

We find quite often that eggs from a pen containing fifteen females and one male will produce quite as well as eggs from a trio or a quartette. All numbers have been tried together from the pair to twenty-five females with one male. Several males have been kept and changed in the pens from day to day. More than one male have been run with flocks of from twelve to fifty and no better general average obtained. In some special cases the per cent of fertility has been increased by these methods and special feeding, but so far not enough of this change has been brought about to prove that any settled remedy has been found.

A LINE OF THOUGHT.

Those best informed tell us that the reproducing power of birds of all kinds fails considerably as winter comes, to compel them to quit building their nests and go together in flocks for protection from the cold, or for migration. This is noticeable with black birds and crows, also the English sparrow. During the winter months they cluster into flocks and from their actions no one could tell whether they were all of one sex or not. As spring comes they again take on the natural habits of life and live in pairs. Might not the same conditions prevail with our fowls and naturally account for the lack of fertility in the eggs?

It might be wise to consider all these facts and to study the problem for our-

selves and see whether it is a condition that can be improved. Or shall we be content to work closer to nature's lines, and defer to a great extent our desire for mid-winter chicks?

The PRESENT OF THE FANCY.

THE EGG-PRODUCERS.

Each year brings us all closer to the fact that egg-producers of the highest order pay well for their care. As the demand for fresh-laid eggs becomes more urgent the price for same has advanced, and those who pay the best attention to the out-put do well with their hens. This has brought to the front not only the Leghorns, but the question of true egg type has come up for consideration as well, and it would bring the smile to the face of all if each could see the selected egg type of the other, but of all these the stumper came at Philadelphia when the judge pointed out the only true egg type for the Leghorn.

If there is any true egg type for the Leghorn it is most certainly not the slim Pouter Pigeon type, but the full breast for food, the long deep body and full abdomen, with capabilities of doing the work that they are called upon to do, in making at least one egg every other day. The slim specimen of two and one-half pounds weight can not stand the strain of this continual grind, and those who hope to establish the 200-egg, or better, strain must have at least enough size to maintain the yolk-forming machinery as well as the producing of albumen and shell to finish the job. Continued capabilities are most necessary for the egg-producer. Several years ago it was thought that the small size and nervous temperament of the small, wild Leghorn were the secret of their large egg-production, but since then the Minorca, the Andalusian, and some of the American breeds have shown an ability to lay as many eggs as the Leghorn and by far more in weight. This has brought to light the fact of cultivated egg-production and with it has come the true solution of the egg type, for as you cultivate the stronger laying habit in your hens they will naturally assume the type most suited in the breed for this manner of work.

To gain in a flock of hens the highest obtainable egg-yield, one must hatch only from eggs that are laid by the best laying hens, and make use of only the males that are the sons of the heaviest laying hens. In this way we gain the ability of the larger egg-production that can only come from the most vigorous. If we are watchful as to this the egg-producing type, habit, and ability, will all join in the single individual, just the same as the high-class show specimens come in line from the best of their kind. Good milk cows come from the best producers and the best hens come in line from the same quality in the parents that we hope for in the offspring.

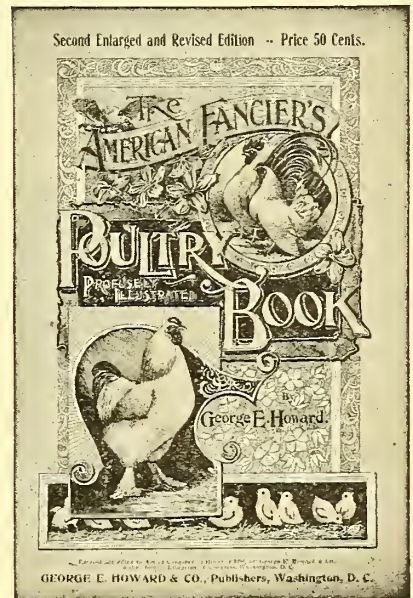
THE LARGER EGG-PRODUCERS.

The Minorcas and Andalusians have considerable more size than have the Leghorns, but in these it has been shown that they may be too large, for some of the largest of these do not produce so many eggs as the smaller or medium size. This fact shows beyond all doubt that it is quite possible to go beyond

the natural limit for size in any breed. The margin of breed characteristics has its limit in all things and this extends to the egg-producing power as well as to shape or type. When we go beyond nature's limit in any of our fowls we injure them in many ways, but in none so much as true type. This we see in all specimens that are oversized for the breed.

For the show-pen the mammoth size of the Minorca or Andalusian may do to the limit of good form, but so soon as you go beyond this you spoil the proper type that belongs to them and which makes them beautiful. These are points for consideration as we go along in the advance style of better poultry. We must not lose sight of the beautiful, nor must we allow ill proportion to run away with true type. Keep each well in mind and advance all as we go along, and of all things remember that the comb of all Mediterranean fowls is a master point for beauty. The Houdans, Faverolles, and other French fowls may be classed as egg-producers, but all these have their drawbacks in the way of crests or scarcity; and in connection with the egg-yield must be considered the fact of market poultry with them. For these reasons they rather belong to

The American Fancier's Poultry Book.



"The American Fancier's Poultry Book" is one of the best books we have ever offered to the readers of THE FEATHER. It is a grand book, and has been praised by all who have seen it. It is a practical book, and should be in the home of each and every lover of poultry. No matter how much you may know about poultry, you will be certain to find something new in its pages. To the novice nothing better could possibly be recommended. This great book contains illustrated chapters on The Poultry Industry, General Management, The Egg, Incubation, The Chick, Recipes for Feeding, Feeding for Eggs, House Building, Keeping Eggs, Caponizing, Diseases, The Standard Breeds of Poultry, The American Class, Asiatic Class, Mediterranean Class, Polish Class, Hamburg Class, French Class, English Class, Game and Game Bantam Class, Bantam Class—Other Than Game, Miscellaneous Class, Turkeys, Ducks, Geese, and Swans. Price, 50 Cents.

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the general-purpose plant or all the eggs they can get and a good fat carcass at the same time when wanted for market. So it is plainly shown that each of these has its special position to fill and should be so selected. All the Polish and Hamburgs are good egg-producers, but the special care for the crest and fine points of the Hamburg makes them a high-class fancy fowl.

THE ENGLISH BREEDS.

The startling popularity of the Dorking of late as well as the boom for Orpingtons, brings us once more to the question of English fowls; for if we must have the best of these we must look to England for them for there is the home of the best of both of these varieties. It may surprise some to know that the Dorking is a fairly good laying fowl. For this we have the assurance of Mr. Henry Hales, who is the father of the Dorking fancy in this country, and he gives us the records of his hens during the winter months and they rank up well with our American breeds.

The Orpingtons we know lay well, and their eggs are fine in size, dark or tinted in color, and fine in flavor. They grow fast, feather well, and make a fine broiler, fry or roaster. When we begin to turn to the fowl with white skin these two breeds will go to the front in this country because they are most delicate table fowls of this character. With these might go the Indian Game, so well considered in England as a table fowl, but these are so far away as a market problem that we can only look upon them as a toothsome delicacy and hope for a liberal increase so as to have them in the markets for sale.

The White Indian Game and Games of all kinds were so fully treated in our January issue that we shall not speak of them further, only to say that all of them had strong classes at our winter shows.

CULTIVATED QUALITY.

The best of everything is a cultivated quality whether this be in fruit, meat, vegetables, or fowls. As we learn to cultivate all these we advance them to a position of quality that adds to their market value and in the obtaining of this higher quality rests the increased profit to the producer. Those who gain the highest perfection of that they produce are the ones who make the profit. It is just the same in all lines of business; the new thing of quality, the best of its kind, no matter of what, is the grade for quality, and it gains the highest recognition in the market. For this reason we have continued for all time to urge upon our readers the value of having only the best.

With this quality goes the art of conditioning your fowls. If we could only learn to have them at all times in the proper condition, whether for eggs or for breeding, or for exhibition. Have each and all in mind and learn to cultivate each to their best advantage. Leave no chance for lack of condition counting against you at any stage of the game. Always be in proper order for every emergency so that if it comes to the show-down, you are in line every time.

These are the facts that favor the fancy for the better. When neglected down we go to a lower round on the ladder to be replaced by some one who has gained the advantage as the result of more and better care and attention to his flock. These are the outcome of ambition to succeed and in this we rest

our hope of more and better fowls for each year as it comes along to the show-down in the exhibition-hall.

How Many Fowls?

In preparing to keep fowls in the town lot there are many things of importance to be considered. First of all, what variety shall be kept? Which will do best in a town lot and will be of no annoyance to near neighbors? For our neighbor's peace and comfort when it comes to fowls is sometimes a matter of serious consequence. There are some breeds of fowls that are too restless to ever take to small quarters. Would it were not so, for my favorite is the restless, high-flying Brown Leghorn. But there are other breeds that seem to be more content to dwell within certain limitations. The heavier varieties are not disposed to roam. The Plymouth Rock and the Wyandotte are a happy medium between the light-bodied Leghorn and the ponderous Cochin. The Langshans and the Brahmas are not disposed to fly and are with some very profitable.

There is a tendency to lay on fat in close quarters and also to form bad habits, such as feather-pulling and egg-eating. This can be avoided to a large degree by giving the hen a lot of work to do in securing her daily sustenance. She must scratch for her living.

The house in which this family of forty is to be kept must be thoughtfully built, and the increased profit will more than repay for the care. Men differ among themselves when they give their opinion of the various makes of firearms, and so they do on the amount of space to allow for each hen. I think the general opinion gives more than we can spare so intensive culture must again come to our help. It is, however, generally accepted that a scratching-shed is an essential to every well-regulated hennery. If there are forty fowls let them be kept in two flocks of twenty each. Or if sixty let there be thirty in each flock. There should be one building as large as space will allow leaving some room for runways. Let the dimension be for one lot twelve by forty. Let it be divided in two henneries with a room in the center dividing the two. This will contain the feed-bins and the many conveniences needful about a place. On either side of this central room are the roosting-rooms and next to these the scratching-sheds, all so connected by doors as to be convenient in their relation to the center room. Let there be a floor in the three center rooms and plenty of litter—straw is good, though clover hay is better if not too expensive—in the sheds. Under the roosts are the dropping-boards and some litter on the floor. A brick foundation carefully laid about twenty inches deep would prevent the rats from making themselves numerous under the floors which they otherwise will do.

Plant a hedge of California privet across the front of the lot and it will add very much to the appearance of things in general. Cut it back for a few years and it will soon be a dense screen. Do not plant it too near the hennery. Of course, you will seek out a southern exposure and will make your roof of one slant, with rear wall about four feet high and the front about seven. Make the roof of matched lumber and cover with tar-paper. Paper the inside of your house with carpet lining which is very good for this purpose. Divide your

yard in two and see to it that there is always plenty of litter. Feed well but during the day keep them hungry enough to be on a constant lookout for something and before sundown fill them up on corn or some other grain. Be regular in feeding and now that they are shut in their diet must be varied. They must have green food and fresh meat in some form.

The success of the whole thing will depend upon the man in charge. It is surprising what results come from some close city quarters, and yet not so surprising after all when we see the attention given to the so-called "little things". Let this be the recreation department for the professional man or the busy, hard working woman and it will be a veritable restorative for that "tired feeling" that creeps over those living a sedentary life, and, too, think of the other income.—HARRY.

Prize Article on Green Bone.

The following contribution to the *Farmer's Voice*, by W. F. Adams, of Yoakum, Texas, was awarded the grand prize, \$100, as the best of twenty-seven submitted. The judges were F. L. Kimmey, president of the American Poultry Association; Miller Purvis, editor *Commercial Poultry*; and F. H. Shellabarger, poultry judge and fancier:

My experience with cut bone as a food for fowls extends over two years only with a flock of 100 hens. Prior to that time I had not used cut bone and my article is based on the percentage of gain in the growth, health, and eggs of fowls over the two years previous, when I did not use bone; all other conditions for the four years being about the same.

My attention being called to the value

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fascinating to breed Homing Pigeons, besides being a most practical study. Every detail is told in this book in a clear, concise, and explanatory manner; and the various writers who have given us a mine of information. The reader is taught all about the selection of good breeders, the breeding of youngsters for racing qualities, training them to the best advantage; also the rules and conditions for flying birds in races, as well as for business purposes. It is a complete book in every way. Lovers of the Homing Pigeon can not well do without a copy of this excellent little book. **Price, 25 Cents.**

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of fresh cut green bone as a food for poultry, I determined to experiment. I crushed some hog bones as best I could and fed it to layers. The result was so satisfactory I bought a small bone cutter and began to feed green cut bone to my poultry regularly twice a week. I tried all sorts of bones and have found the hog and beef bones the best, being easier obtained and containing more of the nutritive value.

I get a soup bone of the butcher, shave off the meat (a little meat won't hurt if you intend feeding as soon as cut) and I feed the same day it is cut.

Some people make the mistake of using bones that have been boiled or lain out and sun-bleached. Some of the most essential feeding value of the bone has thus been lost, especially as feed for growing chicks. The animal, as well as the mineral qualities of the bone, is what makes it valuable. I experimented with cut chicken bone a little and fancied I saw an improvement over the other bone, but I am not sure, and even though there be, it is not convenient to get green chicken bone. Be sure that the bones used are not those of animals that have died of disease, old age, or starvation. The former two are dangerous to the health of fowls, the latter worthless. Bones of young animals are best.

For growing chickens, after two weeks old, I mix the bone meal with corn chops, dampened with curd milk (water will do), so that each bird gets from a half to one teaspoonful of the bone meal, according to age. It is an excellent bone food for the fowl and general invigorator and growth forcer. Extra large and quick growth of bone in fowls means more meat, and more meat means seven to ten cents per pound.

For laying hens I feed mixed as above, only that each hen gets one tablespoonful twice or three times a week, according as I think they may need an extra allowance. They need more when they are laying regularly or molting.

The results of the bone as a feed is seen in a very few days in the renewed vigor, health and appetite, and last, but not least, egg-product.

Taking every advantage gained by feeding bone; i. e., general health of flock, quick growth of broilers, increase in amount of eggs, etc., over the two years bone was not fed, I figure it—and I keep close accounts—that the profit derived is fifteen per cent over the profits of the two preceding years. This fifteen per cent is attributed to the bone feed and the other increase in profits was credited to the source from which they came.

Now don't feed an overdose at first, or at any time for that matter; feed regularly. Don't expect the hens to lay two eggs daily and the young chicks to spring up in one night like mushrooms, when they are fed bone. Mix well with the other food so that each bird gets its proportionate share. Don't expect to feed bone only. The bone is only an additional feed, a sort of tonic.

Now I am not going to go into detail to explain how the bone assists—couldn't if I wanted to—only to say that the component parts of all meat bones are the same, and the mineral part of bone may be found in egg-shells. Bone and shells must be supplied from what the fowl eats, hence we feed it to them, directly in the shape of cut bone, instead of indirectly, in the shape of corn, oats, etc., etc.

If you once give fresh cut green bone a trial as a food for fowls you will never discontinue it.

A Feeding Farm.

Prof. Roberts, Commissioner of Agriculture for Canada, thus describes a visit to a chicken fatterer in Sussex, England:

"He had begun life as a farm laborer and was doing a prosperous business. I would not like to say how much the fattening business brought him in, but I would not be surprised to learn that his annual net balance was over one thousand pounds (nearly \$5,000). The chicken fattening business is not to be sneered at as a small affair. Some of the biggest profits are made out of small things.

"Mr. Taylor has on an average four hundred dozen of chickens fattening at his place. In approaching his house I may say that I went down a lane which was lined on both sides with coops in which there were chickens, and around the stock-yards and in a few open sheds there were some more. The special buildings required for this purpose were cheap and not at all large. Two-thirds of the fattening was done in the open air.

"The coops were constructed by using sticks or rods, such as we would call slats, in some cases small hazel rods such as are used for heavy basket making. A little sliding door in front of each compartment gave a chance for the chickens to be taken out when that was required. The chickens were fed for about three weeks, sometimes a little less, sometimes a little longer, according to the condition of the chickens when received and the activity or dullness of the market. The chickens were fed on oats, ground very fine, the hulls being pulverized until they were almost like dust, mixed with skim milk, either sweet or sour, preferably sour. The mixture had a consistency as thick as thin porridge, so that from the end of the wooden spoon it would drop off but not run. * * * It is usually fed raw. In front of each coop was a small wooden V-shaped trough. The chickens could get their heads through between the slats of the coop and eat out of it.

"The chickens were fed a small allowance of the mixture three times a day at first.

* * * "The chickens were kept hungry during the first week, after that they were fed twice a day as much as they would eat. During the last ten days they were fed a small quantity of tallow in the mixture. The tallow was melted and mixed with a small portion of meal. This was readily mixed with the bulk of the food. A pound of tallow per day was allowed to seventy chickens at the beginning of the ten days' feeding, and by the end of that time the quantity was increased to a pound of tallow for fifty chickens per day."

Screenings vs. Wheat.

The tendency of many feeders is to buy the cheaper article. Such feeders are generally judging the value of the feed by the bulk. There is no objection to quantity provided it possesses some merit. The question is whether the ordinary screenings as found in the mills has much actual value as chicken food. A miller recently related an incident, and I give his testimony, for it may suggest why poultry sometimes suddenly dies without any apparent cause of sickness. This miller told me that the contract was with the proprietor that he could have all the screenings he wanted for his poultry. He fed them liberally of this article of food. Some died now and then but recently he lost nearly one hundred in two days. The miller came to the conclusion that the screenings was the cause. He quit feed-

ing screenings and bought sound wheat. None died since. If the screenings was merely shriveled wheat it certainly should not have injured the fowls. It is an open question, however, whether wheat at almost twice as much per bushel is not the cheaper food.—*National Stockman*.

The question of feeding screenings should not mislead any one. All wheat would not be much better for a hen than all screenings. We know of a man who keeps several thousand hens and all the grain they have had for five years has been screenings and they do well but they have a large run where they can get plenty of bugs, berries, fruit, and green food. *Good quality of screenings makes good food for hens.*—EDITOR.

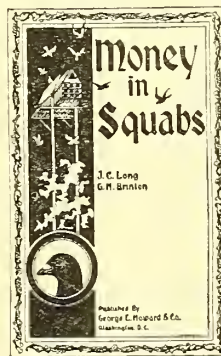
Personals.

A. A. Parker, L. S. Bache, Geo. B. Randolph, and T. F. McGrew have taken to golf. Bache and McGrew did up a pair from Chicago some time since. The day was hot and they say Mack almost collapsed after the finish. You might depend on his staying to the finish, but we advise him to select a cooler day or a heavier crowd. His opponents were thin as rails and built for the chase.

Darling, of Hopewell, New Jersey, is surely a success at poultry farming, poultry showing, and poultry show organizing. He has done so well at all three that they had him at the head of the Trenton Poultry Show. Charlie has a good head on his shoulders and thinks before he acts.

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Introductory, Breeding Houses, Breeding Stock, Distinguishing Sex, Food and Feeding, Water, Salt, Nesting Material, Manure, Breeding and Management, Dressing Squabs for Market, Shipping and Selling, Diseases of Pigeons—Canker, Cholera, Egg Bound, Enteritis, Going Light, Roup, Small Pox, Sudden Colds, Wing Disease, Worms—and Douglass Mixture. Some of the illustrations are: Full-page drawings of Homers, Runts, Dragons, and Duchesse Pigeons, Plans of Single, Double, and Continuous Houses for Breeding Squabs, Arrangement of Aviaries to a Garret Room and to a Barn, Plans for Building a House in the Back Yard, Plans of Nests, Perches, Mating Boxes, Bath Tubs, Drinking-Fountains, Salt-cat and Grit Boxes, etc., etc. This book is thoroughly practical, reliable, and of untold value to all who are interested in raising pigeons, for profit or pleasure. **Price, 50 Cents.**

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MARCH, 1902.

In the Springtime. The success of your business in poultry depends upon your labors at this time of the year. Those who are so fortunate as to start right in the spring and stick to their work to the end of the season always have the best of it when the round-up comes in the fall. There is no shirking in the work to be allowed if you hope to succeed. A single oversight often proves disastrous. The poultry business is hardly a plaything, and while it may be fascinating it will not bear trifling with. The first thought at present should be your breeding stock. The best stock is none too good and it is a waste of time and money to fool with poor specimens. Your breeders should be in the finest possible condition for producing the eggs from which the chicks are to be hatched. Fowls that are in poor condition or debilitated from the past winter's treatment should be cast aside as unfit for the purpose intended. It is a great temptation to many to breed from such birds at any cost, and they lose in the end; so it would be far better to stop before you begin. The best breeders in the best of health will produce enough poor specimens without tempting fate with the poorer ones in the beginning. By careful selection you will in a great measure guard against the drawbacks of poultry raising—by beginning right and attending to the work afterwards. By far it is best to begin selecting your breeders in the fall, by discarding the slow-growing and illy-formed specimens and keeping the vigorous, active, young birds under favorable conditions during the winter. This is one-half the battle and certainly guarantees the proper stock in the spring. Breeding stock should have plenty of exercise in the open air, and they should be kept constantly at

work hunting their living in the litter. This will keep them in health and vigor.

* * *

Eggs laid by strong, vigorous, and well-selected females properly mated with an equally good male will, in all probability, give you chicks that will not be disappointing. It is not advisable to use all such eggs as may be laid by your best birds; but to go a step farther in selecting those of good form, proper size, and firm in shell. This will make assurance doubly sure and curtail to a large extent the production of poor quality in chicks. One can hardly be too careful in these matters, as time, space, and food are money; the less of it that is wasted the greater will be the profit. Remember, it is far better to raise a smaller number of truly good specimens than to raise a larger number of bad ones. The money side of the question only follows in the wake of the careful, conscientious worker. It is the quality, not the quantity that pays the best. These cares will surely become pleasures in the end, and as the stock advances in quality you will have the pardonable pride of knowing that you are advancing in your work and will ultimately stand in the front ranks of the successful and enterprising breeders of pure-bred poultry.

* * *

The selection of the breeding stock and the careful assortment of the eggs for hatching bring us to the time when the youngster is liberated from his cell and gives his first salute to the world. It is a long and rough road from the shell to maturity, and unless a way is cleared many will fall by the wayside. The chicks need your constant attention; they are weak little sprites at first and must be helped on their way to grow into strong, healthy stock. By keeping them growing you improve them, and by improving them you are making for them a constitution that will withstand the shocks in after life. The pleasures of poultry-keeping are in mastering the details, and no details are more essential than the care of the chick from the shell to maturity. Many little troublesome problems are constantly arising that must be solved to place you on the high-road to success. You have the choosing of either success or failure. It is unnecessary to say that whether your chicks are hatched by the hen or the incubator, you must be with them in their daily life. They must be carefully fed, watered, kept free from vermin, and housed in dry, comfortable coops and houses. The tiny plant will properly develop into the bloom if properly attended to, but when neglected it surely will droop and die away. Those who win are the ones who solve the problems of this life, whether it is chickens or something else.

✍

The American Poultry Association. The late meeting of the American Poultry Association at Charleston, S. C., was a busy one, if not a large one, and the work accomplished was in a great

measure beneficial to the fraternity. The American Poultry Association is deserving of the support of every one interested in poultry, and its work should be encouraged rather than discouraged, as has been the policy of a few individuals in the past. The success of the poultry industry depends upon the existence of a representative organization such as this for its ideas and standards for breeding, and its influences for good can not be over-estimated in our opinion. While a great many things might have been done that

Fifty Pens of this Season's Breeding Stock For Sale.

In quantities to suit purchasers. Hundreds of cockerels and pullets after Sept. 15; farm grown, with all wants supplied to produce the finest possible stock. Special prices on trios and breeding-pens; and **REMEMBER**, my stock is line-bred since 1888 for **RESULTS**—32-page descriptive catalogue free. Winners wherever shown—New York, Boston, Chicago, Hagerstown, Cincinnati, Providence, Worcester, Hartford, New Haven, etc.

S. C. White Leghorns, S. C. Black Minorcas, Barred Rocks, White Rocks,
White Wyandottes, Light Brahmas.

ELM POULTRY YARDS, Hartford, Conn.

STATE AGENT FOR THE STAR INCUBATORS.

have not been done, there is ample time for the doing of all things well if each and every one will pull together with the present officials of the Association. Now that the re-organization has begun, we anticipate a lively and active interest in the work, and the hope is expressed that many beneficial ideas will be advanced between this and the meeting at Hagerstown next October. Following are the important transactions of the Charleston meeting:

Four meetings of from two to four hours each were held. The attendance was not large, but a marked and sustained interest in the proceedings was manifest.

Sixteen old members and two new members were present and took a part in the proceedings. Seven States were represented. Eleven members of the executive committee from seven States were present.

The following were the principal items of business transacted, nearly every measure that prevailed being passed by a unanimous vote, and after full and free discussion:

1. The election of Dr. F. D. Kendall, Columbia, S. C., president.
2. The re-election of T. E. Orr, Pittsburg, Pa., secretary and treasurer.
3. A careful revision of the roll of membership, of the executive committee, and of the standing committees.
4. The admission of thirty-one new life members.
5. The admission of twenty-two new club life memberships under Article III., Section 2 of the Constitution as interpreted by the Wooden Resolution at the Buffalo meeting, and the passing of a vote of thanks to Frank Heck for special work done in bringing about this result.
6. The adoption of the proposed amendments to the Constitution and By-Laws which authorize an Association League Committee and outline its work, this committee to be selected at an adjourned meeting of this annual session.
7. The adoption of the amendments to the Constitution and By-Laws proposed by R. F. Shannon, relative to memberships in this Association.
8. The admission to the Standard of Perfection of Buff Orpingtons.
9. The recognition of this, the second official exhibit of Blue Swedish Ducks in their application for admission to the Standard of Perfection.
10. The substitution of Frank Heck for B. N. Pierce on the revision editorial committee, and the continuance of said committee.
11. The appointment of Fred. L. Kimmey, Frank B. White and Otto H. Negly as a committee advisory to the president and secretary, and with those officers to have power to act for the Association in the matter of the recent shortages in the funds of the Association.
12. The appointment of a committee of three, T. F. McGrew, Theo. Hewes, and T. E. Orr, to act with Fred. L. Kimmey and Franklane L. Sewell in devising ways and means for publishing an illustrated Standard of Perfection, if it be found possible.
13. The instruction to the secretary that he furnish to all poultry journals that desire it, a detailed statement of the postal card vote for place for annual meeting.
14. The decision to hold an adjourned session of this annual meeting at Hagerstown, Md., in October, 1902.
15. The passing of votes of thanks to various officials of the Charleston Exposition and citizens of South Carolina who made our stay pleasant.

A Handsome Calendar for 1902.

plate of young chicks mounted on same. It is pronounced by every one to be a work of art and is appre-

We have just published a limited number of handsome 1902 calendars, which are specially designed for poultrymen. The calendar is 11x13 inches, with a beautiful color-

ciated by all lovers of poultry. Those desiring one of these calendars should send 15 cents for one without delay, as the edition is limited and orders will be filled as received.

I must congratulate Mr. Geo. E. Howard, of Washington, U. S., on the pretty cover he gave to the Christmas number of his bright little paper, *THE FEATHER*. The group of chicks and the wreath of holly, both worked out in color, make a capital and sea-sonable combination. *The Feathered World*, (London.)

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WE CLAIM for the Star Incubators that regardless of what may be the existing conditions in the room or cellar where the incubator is located, whether it be very damp, even to water standing on the floor, or whether it be very dry, by the time the air has come in contact with the heat flue, entirely surrounding it and in the same manner passing across the radiator, it always will be dry and warm when it is discharged into the egg-chamber. Hence we use no moisture.

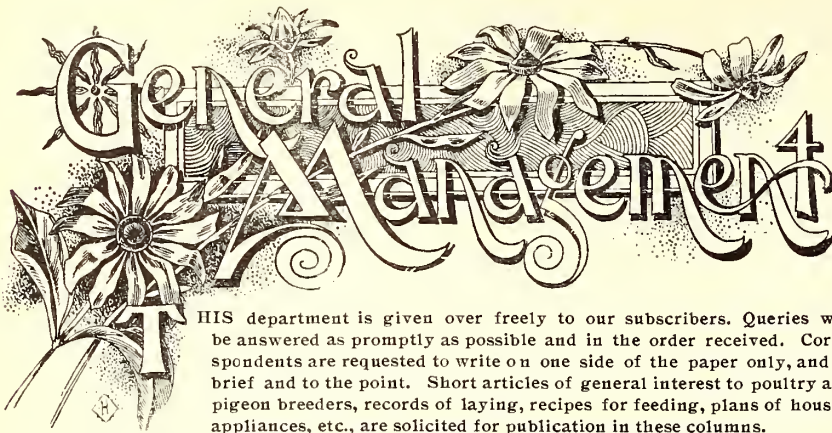
STAR BROODERS are built upon the same line of excellence of our incubators. Nothing but the very best of everything is used in their construction, and we believe our models to be perfect. It is an old saying that a chick hatched is surely raised in a Star Brooder. We are not satisfied to sell you one incubator or one brooder, but to make our machines so that they give such satisfaction that each customer comes to us for his second and third.

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THIS department is given over freely to our subscribers. Queries will be answered as promptly as possible and in the order received. Correspondents are requested to write on one side of the paper only, and be brief and to the point. Short articles of general interest to poultry and pigeon breeders, records of laying, recipes for feeding, plans of houses, appliances, etc., are solicited for publication in these columns.

What Variety?

How frequently is the above question seen in poultry journals, and in return how carefully has poultrydom been divided into sitters and non-sitters, flesh producers and egg producers, winter layers and summer layers! Yet the question continues to come forth and I believe it will continue to do so for time to come, for there are and always will be those who are just beginning to care for fowls.

After having had some experience with different classes of fowls from the mix up of a little of everything to the thoroughbred, I am yet ready to try others, for with me it is a pleasure to change my flock altogether every few years and get acquainted with some other breed.

I began with a lot of wild, harum-scarum birds. They would run, and fly, and scream at sight of me and never became altogether tame. They were white, black, and spotted, some good layers and some good sitters. One day I saw a flock all of one breed and well cared for and then I determined I would keep only one variety as far as possible. I began with the Silver Spangled Hamburgs. I became well acquainted with them and took great delight in them but their eggs were so small. Then I had a flock of Single Comb Black Minorcas. There were twenty-five and what a pretty sight they were! People passing by stopped to admire them, or talk to me about them and to engage eggs.

I had later on a flock of Silver Laced Wyandottes. They did not do very well for me for some unknown reason, though they are a nice, gentle fowl. I had the Leghorns, the Langshans, and the Plymouth Rocks. I became intimately acquainted with the Golden Sebright Bantams, the most attractive fowls I ever kept, and the most profitable in my experience. They are always wanted, because of their beauty. I now have thirty Silver Gray Dorkings which I like very much and may settle on them as the best general-purpose fowl. They are such a happy, busy fowl and always singing their songs. Their plumage does not show the dirt so plainly seen on a white fowl.

My changing about may not be a systematic method but it is decidedly interesting and instructive. I have found good traits in all and some not so good. My choice would be governed altogether by the place I would have for them. This would be my first point to consider. If I lived on a town lot I would keep a heavy fowl so as not to be a

nuisance to my neighbors, and I would make that heavy fowl work in straw and litter for every grain of food and she would give me splendid returns for it. If I lived on a farm I would very quickly decide in favor of the Single Comb Brown Leghorn, and I would have the comb as large as possible. I would have nothing else unless a few Plymouth Rocks for setting purposes. The Brown Leghorn is my favorite but as I live in a village I do not keep them. They are high flyers. What layers they are and what beautiful fowl! Look at a flock of fifty coming to you to be fed. Then how they work among the straw for their feed! True, they are a nervous fowl, but by being about them a great deal when they are chicks under a kind old Plymouth Rock mother they may be made very gentle.

All fowls can be urged to lay well, some better than others. The success in poultry depends upon the poultryman and if he likes it and takes a real delight in the work he will do well with any variety. He will find it a pleasure to feed and water them and to gather the eggs. He will look after their roosting and laying-quarters and see that they are clean, dry and properly ventilated. He will take a real interest in being among them just to see them and learn each one separately. And when the snow lies

deep he will enter their dwelling or scratching-shed and will enjoy their comfortable quarters with them for awhile.—
HARRY.

Valley Farm is at Simsbury, Hartford Co., Conn. Stock, Eggs.

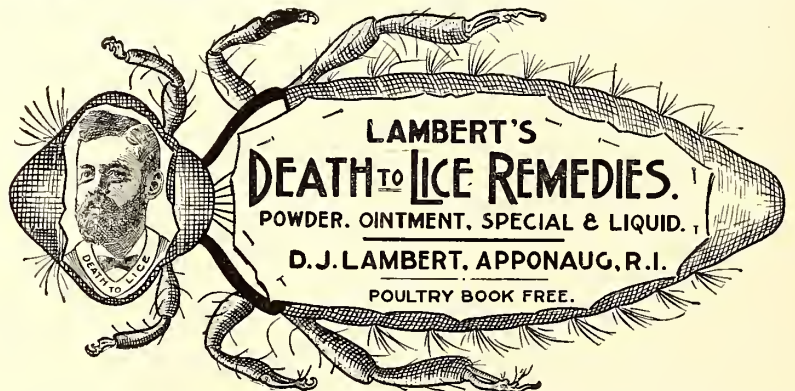
Are Thoroughbreds Profitable?

Editor The Feather:

Since we have been keeping thoroughbred fowls many of our friends and neighbors have been asking if they possess any advantages or are any more profitable than mongrels, and a few have expressed the desire to exchange a setting of eggs and see for themselves. Perhaps relating a little personal experience will answer the question the best of any way.

We always had quite a desire to possess some thoroughbred fancy fowls, so one winter the opportunity came to get a Black Langshan cockerel. A cousin of ours visited us and seeing that I was quite interested in poultry offered to send us a cockerel quite reasonable. I accepted the offer at once and thus early learned the advantages of thoroughbred stock. This happened over ten years ago when we were boys, and father let us raise all the chickens we could on shares. We soon worked into all thoroughbred stock, trying different breeds until we finally found the one best suited to our needs and also took our fancy most. This was the Buff Plymouth Rock. Our mongrel chickens we used to sell every fall to buyers who used to come out from the large cities and buy at their own price, usually about 8 cents live weight, and our eggs were traded off for groceries at the store.

Since keeping fancy stock we have discovered a better market and we have found that people are willing to pay a pretty fair price, if they get what they want and know the quality is there. Now we sell our surplus hens and chickens during July, August, and September, to private customers who know what to depend on. We get 20 cents a pound dressed for hens, 25 cents for chickens, and 5 cents a dozen above market price for eggs. Isn't this a good



ROCKS BUFF BARRED

WHITE WYANDOTTES LIGHT BRAHMAS

THE CREAM FROM PRIZE-WINNERS.

I have the best and that is what you want.

Our Buff Rocks and White Wyandottes are of the best the world can produce. Our Barred Rocks and Light Brahmas are also extra fine. Three years spent in breeding from the best strains money could buy before offering them to the public. To buy from me is to be convinced. Eggs this season from extra good stock, only \$1, and from best stock and selected eggs, \$1.50 per setting. This offer is good only for this season. I have a few Barred and Buff Rocks, and White Wyandotte cockerels for sale (they are extra fine) from \$2 to \$5 each. Order before the rush comes.

JAMES Q. MYERS, Box A, Oaks, Pa.

argument in favor of thoroughbred stock? Besides this we are shipping lots of stock and eggs every year for breeding purposes at fancy prices.

Some will say they have no time to bother with chickens, and I have seen these same people loafing about the stores for hours at a time. Others will, say they haven't the location suitable or markets are too remote, etc. I tell you, friends, you don't always know what you can accomplish until you try. But you have got to make up your mind to something, have a purpose and then stick to it or die.

We are not at the top of the ladder yet, but we intend to get there some day, and we find many helpful hints and suggestions in the poultry journals. Be enthusiastic. What most of us need is inspiration, get all you can of it.—E. E. LAWRENCE.

Valley Farm, White and Barred Rocks, Houdans, Faverolles.

Questions and Answers.

CHICKEN-POX.

Q. Please tell me what kind of a disease my chickens have. At first a few small swellings or ulcers appear on the comb. At first they are hard, but become soft and break and discharge a liquid. At last the head and neck swell. I have never lost a bird. I wash their head with luke-warm water to which a little carbolic acid is added. I keep my henhouse dry and clean. Please let me know where this disease comes from.—C. F. O., Greensboro, N. C.

A. Your fowls have chicken-pox.

Your treatment is good and if none die you have done well. Chicken-pox has had quite a run all over the country for two years. It is very contagious and usually kills all the small chicks that get it. No one can tell how it comes, but it does come good and hard sometimes.

DISFIGURED BY AN INJURY.

Q. I have a fine Light Brahma cockerel that got into a fight some time ago, and as a result is very much disfigured. At first, I noticed the left ear was bleeding and that the small ear feathers had been plucked, but I thought it would soon heal, and in fact it did seem to be perfectly well for a while, but now there is an unsightly protuberance on the head, resembling a wen about the size of a walnut, and the ear is entirely closed. Do you think this could be successfully removed or opened with a knife? The bird is in a good, healthy condition otherwise.—W. L. P., Bluefield, W. Va.

A. I should most certainly open the protuberance and see if it will help the trouble. If it does not, you had better get rid of him or it may run into a bad trouble. You had better cut it open and wash with warm water with a little carbolic acid in it and see if it will get well. If not, kill the fowl and burn the body.

ATROPHY OR GOING LIGHT.

Q. I have a few questions I would like to have answered through your valuable paper, THE FEATHER. 1. I had a pair of show Blue Fans that seemed to lose all use of their wings, which became stiff and would sit up close to the body. Their appetite seemed to be all

right, as they would eat and drink apparently as well and as much as any of my birds, but they became very poor and finally died. The man I got them of had been showing them at fairs, and he had pulled the flight-feathers out so they could not fly. They were young birds. Do you think that treatment was the cause of their wings becoming stiff? They finally died. 2. I have two Black Fans hatched together in the same nest, and to all appearance seem to be a pair, but neither will coo to any amount, and when night comes the larger will drive the other out of the cote. Do you think they are a pair, or not? I have had quite a good deal of experience with pigeons but never had such a case be-

BOILED BEEF AND BONE.

Live, healthy, strong, and vigorous chicks are always hatched from hens when Romaine's Boiled Beef and Bone is fed to them.

Nothing can possibly make hens lay more or better eggs than B. B. B., as it takes the place of insect life for both hens and chicks. It contains the nutritious elements found in meat. The egg-basket is always filled, and chicks grow faster when B. B. B. is used.

B. B. B. Is guaranteed cheaper than meat, better than scraps and safer than medicine. It will make hens lay more eggs and keep them in better health than any other food or condiment. Sample free. 50 lbs. \$1.25. 100 lbs. \$2.25.

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We have been making incubators and brooders for so long a time that to most people seeing the name

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is like meeting an old friend. Well, we are still doing business at the old stand, and merely ask you to remember the name and the place. It's the "Prairie State" that is used exclusively by the Department of Agriculture at Washington. It's the "Prairie State" that has taken 342 first premiums—more than all other makes of incubators combined. It's the "Prairie State" that is used on the largest and most successful poultry and duck farms in the entire world. It's the "Prairie State" that is made in the largest and most completely equipped, exclusive incubator and brooder factory in the world. It's the "Prairie State" that this year issues the most complete, comprehensive and artistic catalogue ever put out by any incubator company. 50 tinted plates; 4 original paintings, reproduced in colors, 700 original photographs. These are but a few of the good things it contains. We mail it free to every interested inquirer. Send for catalogue No 40.

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fore. The Black Fans were hatched the latter part of July, and it seems as if they ought to begin to nest by this time. 3. Does it disqualify a Wyandotte to have a single comb?—W. S. I., Sonora, N. Y.

A. 1. No doubt but bad treatment and confinement have caused the trouble. Think they will be all right in a short time if allowed the freedom of the loft. The Blue Fans died of atrophy or going light, as it is called, you might call it pigeon consumption. 2. Should suppose they were not a male and female, but they may be and not be mated. This is mid-winter and you can not be certain, but as soon as they begin to look for mates you will be able to tell. I think they will be nesting soon and you will be sure of their gender. 3. Yes, it is not a Wyandotte if it has a single comb. All Wyandottes have double or rose combs. A single comb fowl can not be called a Wyandotte. Better get a copy of the Government Bulletin on Wyandottes.

NUMBER OF FOWLS IN A HOUSE, VENTILATION, ETC.

Q. I venture to apply to you for answers to the following questions: 1. How many fowls, Minorcas and Plymouth Rocks, can roost safely from Dec. 1st to April 1st, in a house $9\frac{1}{2} \times 12 \times 8$ ft.? 2. The house is lined with tar paper, and is tight save for the crack around the door, and an opening 2×4 ft. into an airy garret. Is this too little or too much ventilation? 3. I have a particularly fine Plymouth Rock cock, and five well-bred pullets, and I want to set eggs from these next March. I have not enough separate runs, but I have a spare scratching-shed (wire on two sides), 9×12 ft., with a warm roost attached. Would it be safe to confine the Rocks in this shed for a time, and at what date must I put them there to insure pure-bred eggs for setting in March? If this shed, 9×12 , does not give the Rocks space enough how small a run must I add? 4. When do cockerels become cocks, and pullets hens? 5. What should Plymouth Rock and Minorca cockerels and pullets weigh at eight months old?—Miss C. P. D., University Station, Charlottesville, Va.

A. 1. To do the best in a house each fowl should have about four square feet of space. If your house is kept perfectly clean and well looked after you might keep thirty to thirty-five hens in it, but twenty-five would do better. 2. You must have the ventilation to suit the weather and the number of fowls in the house. If only a few in the house, say six or eight, use the ventilator; if twenty-five or thirty it should be open warm nights and closed when it turns cold. 3. Yes, it will be safe to confine the Plymouth Rocks as you say. Separate them two weeks before you will wish to set the eggs. After two weeks it will be all right; when the time comes to let them run out, shut up your other fowls in the house for half a day and let the Plymouth Rocks run. 4. Chicks hatched in 1901 will be cock-birds after April first 1902. Pullets become hens the same time. 5. Plymouth Rock cocks at eight months old should weigh about seven pounds, pullets six-pounds.

Valley Farm White Rocks won half the Pan firsts. Eggs.

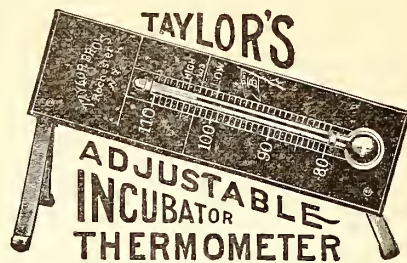
Shows and Associations.

The late show of the Sanatoga and Schuylkill Valley Poultry, Pigeon, and Pet Stock Association held at Sanatoga, Pa., was the largest and most successful ever held by this association. Barred and Buff Rocks were strong classes and competition warm. White Rocks, Wyandottes, and Leghorns were of good quality. Rose Comb Brown Leghorns, while not a large class were the finest lot ever shown in that section. Minorcas were good. A. E. Warner and J. W. Bruckart were the judges.

The third annual meeting of the American White Minorca Club was held in Madison Square Garden, Jan. 17, 1902, and the following officers were elected: President, Frank Willing Leach; vice-president, J. N. O'Neil; secretary and treasurer, Wm. Sapper. Honorary vice-presidents: A. J. Stoner, Arizona; Mrs. Frank Graves, California; H. A. Stearns, Colorado; M. J. Cullen, Connecticut; A. Harnan, Michigan; C. W. Jerome, New York; Dr. J. W. Lyder, Ohio; J. L. Purple, Pennsylvania.

At the annual meeting of the Torrington (Conn.) Poultry Association, held Dec. 14, 1901, it was voted to hold the next Torrington Show Nov. 25-28, 1902. The City Hall, which for superior light, ventilation, and general convenience is admirably fitted for a poultry exhibition, has since been secured, and Judges David A. Nichols and A. F. Peirce have been engaged. The officers for the year are: Frederick Hoerle, president; J. H. Putnam, Litchfield, first vice-president; Wm. Bingley, second vice-president; Chas. E. Young, secretary; Frank Bentley, assistant secretary; H. H. Romer, corresponding secretary; Fred. A. Wilcox, treasurer; Chas. W. Cook, superintendent.

The first poultry show given by the Kansas City Fancy Poultry Club was held in Kansas City, Mo., Dec. 6-8, 1901. W. S. Russell and T. W. Southard judged the poultry and John Haman judged the pigeons. This was the most successful poultry show ever held in



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Kansas City. All promises were kept and all exhibitors went home satisfied. Out-of-town exhibitors showed their faith in Kansas City by attending and showing their stock. There were 105 exhibitors and over one thousand entries in the poultry and pigeon classes. The Poultry Breeders' Convention was held at the Midland Hotel on Dec. 6, and the Midland Poultry Association was formed. Its first show will be held in Jan., 1903, and it is expected it will rival the Madison Square Garden Show in magnitude.

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MY WHITE PLYMOUTH ROCK EGGS

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Bowker's Animal Meal
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Bowker's Animal Meal makes hens lay, by furnishing them the material to make eggs with. It is not a stimulant, but a true food. By its use, the egg yield is often doubled. Chicks fed with it mature earlier. Enough for ten hens, three months, \$1.00; four times as much, \$2.25. Booklet, "The Egg," free.

THE BOWKER COMPANY, Dept. No. 9, 43 Chatham Street, Boston, Mass.

Eggs All Winter.

The increase in eggs for one week after feeding Bowker's Animal Meal was 25 per cent daily more than the week before, and the second week it was 37½ per cent., and still increasing. Have got eggs every day all winter. I recommend Bowker's Animal Meal to poultrymen for an egg-producing food.—CHAS. J. SETTLE, Gallupville, N. Y.



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The seventh annual election of officers of the Upper Iowa Poultry Association, was held in Mason City, Iowa, Jan. 2, 1902. The following officers were elected: President, H. McCulloch; vice-president, Earlie Glanville; superintendent and treasurer, James Penny. Directors—C. A. Dyer, J. R. Bliss, Wm. Hood. The association will hold its seventh annual show at Mason City, December 19-24, 1902. This association has held six successful shows, paying all premiums in full. They again invite all lovers of fancy poultry to bring their birds and make this seventh show another success. They have secured as judge, Mr. A. B. Shaner, of Lanark, Ill.—S. V. JOHNS, Secretary.

A RESOLUTION.

At a special meeting of the American Buff Plymouth Rock Club, held in Buffalo, Oct. 24, 1901, a committee was appointed to draft resolutions on the death of H. S. Burdick, and adopted the following:

Whereas:—It has pleased the Almighty to remove from our midst our great Buff Plymouth Rock fancier and esteemed friend, H. S. Burdick, and

Whereas:—By his death the Buff Plymouth Rocks have lost their most zealous champion, the Club an honored and beloved member, who, by his kind and lovable disposition made a friend of every one with whom he came in contact; although engaged in a successful business in competition with many others, it can be said of him, that his competitors never became his enemies, but always remained his friends. Therefore be it

Resolved:—That the next edition of our Buff Plymouth Rock Catalogue contain a memorial page in his honor,

Resolved:—That the American Buff Plymouth Rock Club extend to the bereaved family their most sincere and heartfelt sympathy, and

Further Resolved:—That a copy of these resolutions be forwarded to all the leading poultry journals for publication, and that a copy be sent to the bereaved family.

Committee. { Aug. D. Arnold.
D. H. Foster.
H. E. Benedict.
F. C. Shepherd.
W. C. Denny.

The ninth annual meeting of the National Bantam Association assembled at Madison Square Garden, New York, on Thursday evening, January 16th, in connection with the thirteenth annual exhibition of the New York Poultry and Pigeon Association. In the absence of President Williams the Hon. David A. Nichols, vice-president, presided. The secretary's minutes of the eighth annual meeting were approved. The rule was suspended and eight new members were unanimously elected.

The nomination of judges for 1903 resulted in Messrs. C. E. Rockenstyre, F. B. Zimmer, and H. J. Quilhot, being selected, and the members will choose one of these fanciers to serve the association at the next annual show in the Garden.

The full list of officers is as follows:

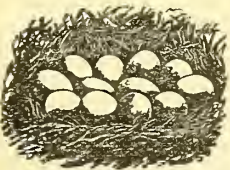
President, Chas. T. Cornman; secretary, E. Latham; treasurer, A. A. Parker. Board of Directors: John Glasgow, J. F. Kirkpatrick, T. F. McGrew, William Holmes, William Barber, H. J. Quilhot, Chas. T. Cornman, A. A. Parker and E. Latham.

Vice-Presidents: Hon. A. F. Peirce, Dr. W. Y. Fox, Hon. D. A. Nichols, C. H. Proper, W. J. Andrus, Dr. E. H. Witmer, Ira C. Keller, M. Mayer, Richard Oke and S. A. Nofztger.

The thirteenth annual exhibition of the Kansas State Poultry Show held Jan. 6-11, proved to be the best one in the history of the association. The show was held in Topeka's beautiful Auditorium, one of the best show halls in the West. The attendance was the greatest ever seen at any poultry show in Kansas, aggregating nearly ten thousand for the week. At the close of the show Secretary Geo. H. Gillies was presented with a handsome engraved gold watch for his faithful and successful work. Treasurer Owen, Assistant Secretary Atwood, and Superintendent Steinberger were also remembered with suitable presents. The show was a success in every way. The following gentlemen were elected officers for next year: Prof. L. L. Dyche, Lawrence University, president; F. P. Bacon, Topeka, vice-president; Col. J. W. F. Hughes, Topeka, secretary; Raymond Atwood, Topeka, assistant secretary; Thos. Owen, Topeka, treasurer; Chas. Steinberger, Wa Keeney, superintendent. Directors, Prof. L. L. Dyche, F. P. Bacon, Col. J. W. F. Hughes, Thos. Owen, Chas. Steinberger, Geo. H. Gillies, D. A. Wise, Topeka; B. W. Smith, Manhattan; H. C. Short, Leavenworth. Secretary Gillies was urged to again accept the secretaryship but was unable to on account of being out of the city next winter.

Valley Farm, Simsbury, Conn., now has some bargains. Eggs.

EGGS!



For Hatching, from Brinser's Prize-Winning Stock 3 3 3

Price only, \$1.50 per 15, or \$7 per 100.

Our yards are carefully mated up with first-class birds throughout, of all varieties. We ship eggs to all parts of U. S. and guarantee safe arrival. Book your order now, and we will ship them when wanted, in Light, Strong, and New Baskets. Fertility insured. Remember our yards are mated up with excellent birds throughout and prices are exceedingly low. Varieties: Buff P. Rocks, White P. Rocks, Barred P. Rocks, Light Brahmas, Dark Brahmas, Buff Cochins, White Cochins, Sherwoods, S. C. White Leghorns, S. C. Brown Leghorns, R. C. Brown Leghorns, S. C. Buff Leghorns, S. C. Black Minorcas, R. C. Black Minorcas, Silver Spangled Hamburgs, Buff Cochins Bantams, White Cochins Bantams, White Wyandottes, Buff Wyandottes, Golden Wyandottes, Silver Wyandottes. Pigeons: Flying Homers, 700 miles, White Fantails. Dogs: Scotch Collies, English Beagle Hounds. Rabbits: Belgian, Rufus

Red. Bargains—500 choice Light Brahmas, Silver Spangled Hamburgs, and Black Minorcas to go quick at the low price of \$2 each, or \$5 per trio. Satisfaction guaranteed or your money cheerfully refunded. All first-class birds. Order to-day. They must please you. All other varieties at a low price. Catalogue 4cts. Mention THE FEATHER.

O. D. BRINSER & BRO., Middletown, Pa.

Stock
and
Eggs.

Barred and White Rocks; White, Golden, and Partridge Wyandottes; S. C. White and Brown Leghorns, and Black Minorcas. Write for prices.

F. A. STEDMAN, Rutherford, N. J.

START RIGHT.

Choice eggs \$1 per 15; \$4 per 100; \$35 per 1,000. Barred, Buff Rocks; Buff, Golden Wyandottes; R. C. Brown, S. C. White Leghorns. Farm fed—enough said. Valuable circular free.

A. B. KATKAMIER, Macedon, N. Y.

EASTERN SHORE POULTRY YARDS

The place where fine S. C. White, Brown, and Buff Leghorns are bred to win.

My birds have won at the GREAT WASHINGTON, PHILADELPHIA, and NEW YORK SHOWS. Early Fertile Eggs from my best matings, \$1.50 per 15; \$4 per 50; \$7.50 per 100. For sale—S. C. White and Brown Leghorn hens at \$1 each.

A Member of American Leghorn Club.

A. C. VAN DEMAN, Parksley, Va.



WE BREED

Buff Leghorns, Buff Cochins, Buff Orpingtons, S. C. Brown Leghorns, Mottled Anconas, White Plymouth Rocks, White Wyandottes, R. I. Reds, S. C. W. Leghorns, Blk. Minorcas, and Lt. Brahmas.

BERWYN POULTRY ASS'N.

J. FRED. KEEFAUVER, Sec'y,
Box 215, Berwyn, Md.

WE WON

57 Firsts, 48 Seconds, 49 Minor Prizes, and 16 Specials, in 1900 and 1901, at Hagerstown, Rockville, Hamilton, York, Washington.

Eggs, \$2 for 15; \$5 for 45.

For stock or other information address the Sec'y.

THE BUSINESS WORLD

As Viewed from the Columns of
The Feather.

A FORTUNE IN A NAME.

Under the keen and exacting conditions of modern business, much more depends than formerly upon the name adopted for the business or the article offered for sale. We feel like congratulating the Clay Phelps Incubator Co., of Cincinnati, Ohio, who are advertising with us, on the name "All Right," under which they are making and selling their incubators. We regard it as one of the happiest hits of recent years. We are glad to present herewith an illustration of this incubator, and refer our readers for fullest particulars to the very handsome catalogue issued by the Clay Phelps Co.

One or two points we wish to call attention to. One is the plan on which they sell their machines; namely, forty days' trial. This is done to create the fullest possible confidence on the part of the public. If the manufacturer shows his own confidence in his goods, it's bound to find its answer in greater confidence on the part of the buyer. We do not remember to have seen in any catalogue a clearer statement of the construction and advantages of an incubator than in the "All Right" catalogue. A careful reading of these pages impresses one most favorably. In fact, it is hard to imagine how it would be possible to build a machine more conscientiously than the "All Right." Kiln-dried poplar cases, double walled and extra well lined copper heating-tank; safety-lamp of the most practical and approved pattern, and a regulator of great sensitiveness, combine to make the machine a profit to the buyer, as well as a pleasure to use. The catalogue is handsomely illustrated and is sure to interest and aid any one who is about to buy an incubator. Write the manufacturers to-day and get one of these books free. Address, Clay Phelps Incubator Co., Cincinnati, Ohio, and mention *THE FEATHER*.

BREEDERS OF PRIZE-WINNERS.

The accompanying half-tone portrait is of O. D. Brinser, of the firm of O. D. Brinser & Bro., Middletown, Pa.,

breeders of prize-winning strains in all varieties of Rocks, Wyandottes, Brahmas, and Leghorns; also Cochins, Minorcas, Sherwoods, Homing and White Fantail Pigeons; Scotch Collies and English Beagle Hounds, Belgian Hares and Rabbits. Their stock in all varieties is first class in every respect. Their Homing Pigeons have a record of 700 miles, and fowls have won in strong competition. Note their ad in this issue for prices on stock and eggs which are very reasonable.

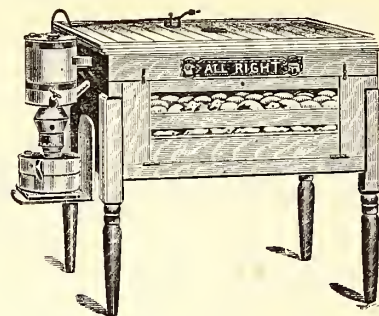
NEW OFFICE OF THE "SUCCESSFUL."

The rapid growth of the Des Moines Incubator Company has made necessary the opening of an eastern house at Buffalo, New York. The accompanying illustration shows the eastern home of



O. D. BRINSER.

the well-known Successful Incubators and Brooders. All shipments on eastern orders are now made from the Buffalo warehouse, at a saving of time and expense to the purchaser. The management of this branch house is in the competent hands of Mr. W. C. Denny, formerly of Rochester, New York. Mr. Denny is one of the best-known fanciers and practical poultrymen in the country, and is an expert in all matters pertaining to artificial incubation. The operations of the Des Moines Incubator Company



THE "ALL RIGHT" INCUBATOR.

have, for several years, been international in extent, and this new departure is simply in line with the expansion of the business of this institution.

Eastern customers are requested by the company to address their correspondence to Des Moines Incubator Company, Box 3, Buffalo, New York.

SEND FOR ONE.

We are in receipt of the Sure Hatch Incubator Company's Fifth Annual Catalogue. It is a book of some 166 pages, over 200 illustrations and contains a vast amount of poultry information, plans for poultry-houses, yards, etc., chapters on practical poultry raising and how to make money on a small investment, etc. Look up their ad and write them and mention that you saw their ad in *THE FEATHER*.

FINE BROWNS.

At Washington, D. C., Nov. 19-23, 1901, L. O. Bromley, Silver Creek, N. Y., won, on four entries, first breeding-yard, first hen, and fourth pullet, in Single Comb Brown Leghorns. Mr. Bromley has some fine stock and our readers will do well to write him for particulars regarding his birds.

Valley Farm, Simsbury, Conn., sends an artistic catalogue free.

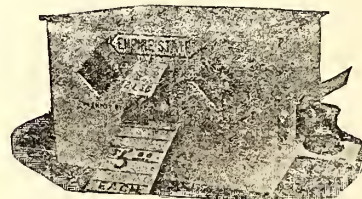
BUSINESS OPPORTUNITIES IN THE NEWLY discovered gas and oil regions. Thousands have secured homes and fortunes by obtaining employment or engaging in business. "Business Opportunities" will give you trustworthy information as to localities where large capital is being invested, labor is well paid, and opportunities for business are most attractive. If you are not satisfied with present conditions, desire a home and a new field of activity, subscribe at once. \$1 per year; 3 months' trial subscription, 25 cts. Address

Publisher "Business Opportunities,"

1843 Wabash Avenue,
DEPARTMENT 146. CHICAGO, ILL.

"The best opportunities are the earliest ones."

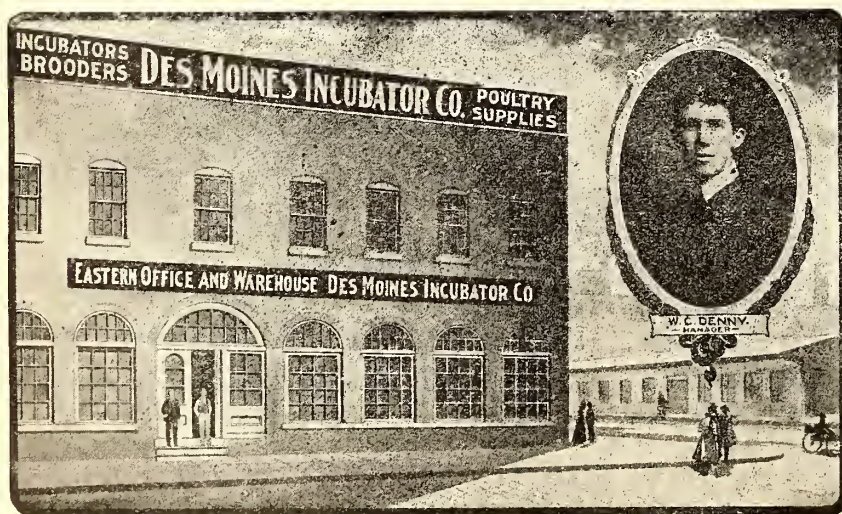
THE EMPIRE STATE BROODERS
ARE WITHOUT AN EQUAL.



Are sold under a positive Guarantee, and are worth double the sum asked for them. 100-chick size only \$5.00; 200-chick size only \$10.00; Crosier's Lice Paint, 5 lbs. \$1.00; Crosier's 20th Century Lice Powder only 10 cts. 1b., guaranteed first-class; Climax Leg-bands, 50 for 50 cts., or 90 cts. per 100; Crushed Oyster-shells 50 cts. per 100 lbs. or \$8.00 per ton. Other poultry supplies very low priced. Write us to-day, enclosing 2-cent stamp for fine illustrated catalogue. Circulars only for card. Satisfaction Guaranteed.

EMPIRE STATE BROODER CO.,

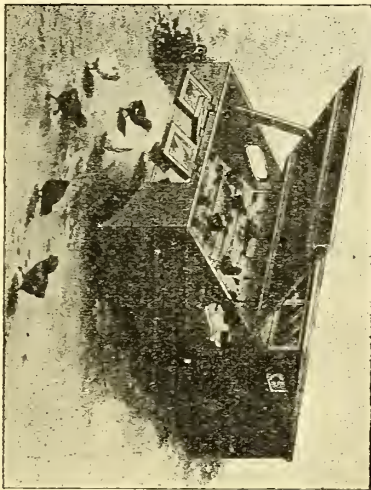
Box C 3, Hall's Corners, N. Y.



New Office of Successful Incubator Co., Buffalo, N. Y.

THE CYPHERS \$12 OUTDOOR BROODER.

Herewith is shown a half-tone (made from a photograph) of the Cyphers three-apartment, \$12 Outdoor Brooder manufactured by the Cyphers Incubator Company, Buffalo, Chicago, Boston, and New York. Next to its incubator the Cyphers Company especially prides itself on its three-apartment, outdoor brooder. Thousands of them have been sold and the manufacturers have received hundreds of testimonials, reporting success with it. When the right kind of an incubator has hatched the right kind of chicks, the battle is only half won. Next comes the brooders, and their work is fully as important as that done by the incubator. The real test of a brooder is not what the manufacturers say about it, but the work it does in the hands of persons who have bought it, put it to practical use and marketed the chicks entrusted to its



THE CYPHERS BROODER.

care. Herewith are brief extracts from a few of the many letters the Cyphers Company has on file, received from customers during last season:

"Last February I bought one of your 120-egg Incubators and one Style A Outdoor Brooder, and set the incubator going March 1st; on the twentieth of the month I had an incubator full of live chicks. I put them in the brooder and, although the rain fell most every day in March, April, and May, I raised every chick I hatched."—GEO. B. RILEY, 72 Winfield Ave., Jersey City, N. J.

"I have placed as many as 100 chicks in your Style A Brooder till they were well feathered, and did not lose any. It pays to buy the best, and I think you have it."—M. P. SEAVEY, Chicago, Ill.

"The Style A Outdoor Brooder I bought of you last year was a great success. I put forty-four chicks into it and raised forty-three."—J. E. SMITH, Chestnut Hill, Philadelphia.

"I raised several hatches in the Cyphers Style A Outdoor Brooder and

lost only four chicks altogether, and they were the last to break out of the shell when hatched and were consequently weak. Lost more chicks from one lot running with hen than I did from all the brooder chicks."—HARVEY A. SOULE, Kingston, Mass.

"As respects your brooders, I would say that with the same number of chicks in them and under hens, I raised double the number in brooders that I did with the hens."—OTIS A. MERRILL, Pepperill, Mass.

"Your brooder is a fit companion for the incubator, doing its work well. It raises healthy chicks and is run with a very small amount of oil. It is easily managed and can be relied on to do its work."—A. A. BROWN, 286 Washington Street, Quincy, Mass.

"Three and a-half weeks ago I placed forty-three chicks in your Style A Outdoor Brooder and all of the forty-three are living and in good health. All of my neighbors are astonished to see how well they look." JOHN O. HOEKER, 1001 N. Leavitt Street, Chicago, Ill.

"The secret of success in raising chicks I think is first to get an incubator that will hatch strong, healthy chicks; and second, to get a brooder that will distribute the heat evenly and prevent crowding. You are fortunate in having both."—T. J. ILLSLEY, Chicago, Ill.

Send to-day for elegant 180-page Complete Catalogue for 1902, describing in detail the above brooder and the full line of Cyphers goods. Contains over 200 photographic views of America's successful poultry plants. Book weighs one pound, and will be sent free to any address for ten cents in stamps or silver to pay postage. Ask for book No. 6 and address nearest office.

Cyphers Incubator Company, Corner Court and Wilkeson Streets, Buffalo, N. Y. 325 Dearborn Street, Chicago, Ill. 34 Merchants Row, Boston, Mass. 8 Park Place, New York, N. Y.

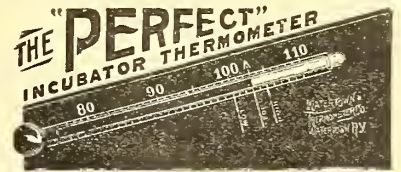
BLANTON'S MINORCAS.

Mr. Charles L. Blanton, Falls Church, Va., the well-known breeder of Black Minorcas made a fine showing at the late Philadelphia Show, and won seven regular prizes, and thirteen specials, among the number second, third, and fifth cockerels in class of eighteen. He exhibited three of the largest cockerels ever shown by one person in America, their combined weight being twenty-nine pounds. Won special on best-shaped female in class of sixty-four in Minorca class, also first in class of nineteen on nearest ideal comb on cock. He had the heaviest hen and pullet in open class. Hen weighed eight and a quarter pounds; pullet seven and one-half pounds. See his ad and write him for prices.

SALE OF NOTED BIRDS.

Mr. E. L. Barclay, proprietor of the Ideal Rabbitry and Homing Pigeon Lofts, writes as follows:

"I have sold to C. B. Obermeier, of Louisville, Ky, five pairs of grand



MANUFACTURED BY

Watertown Thermometer Co.

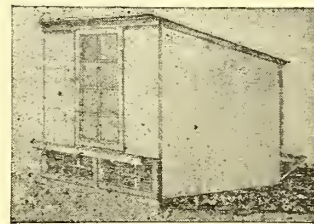
NO. 58 NEWELL ST.,

WATERTOWN, N. Y.

SINGLY, 75 CTS. 3 FOR \$1.50.

breeding Homers, among them being one of those grand birds that were liberated at Louisville, Ky., and crossed the Blue Ridge, Cumberland, and Alleghany Mountains. This fine cock-bird has a world-wide reputation and is known as 'Kentucky Bill,' bearing a Federation Band, G 17,285. His time out was ten days. He also has the credit of being one of the few Homers that are jumped from the seventy-five-mile station to the 400-mile, which he did in fine shape, being my third bird home in the day."

Valley Farm wants your trade. Stock and eggs, and good ones.



Seaside Brooder.
Won 2d Prize at Providence, R. I.
\$5.00.

Portable
Camping, Poultry, Bath, Dog and Pet Stock.

Houses
CHEAPEST, BEST

MISS E. A. ISHAM, NEW DORCHESTER, MASS.

Prize-Winning Leghorns.



The birds at the home of the S. C. W. Leghorns, won a great record in 1900, as many of you know, but it seems as though in the year 1901 they had reached the top notch. At the Fitchburg Show, Dec. 31st to Jan. 3rd they won 5 firsts, 5 seconds, 2 thirds and 6 specials, also silver cup for best cock, hen, cockerel, pullet, and pen in any one variety of Leghorns; all this on 14 birds.

Birds from these yards have won more firsts in the hands of my customers at the leading fall shows such as Concord and Nashua, N. H., Greenfield, Brockton, Clinton, Brattleboro, etc., than all others put together.

Stock and Eggs For Sale.

Eggs from 1 setting to 1,000 eggs at reasonable prices.

Send for circular. Prices on application.

F. G. POWERS,
STERLING, MASS.



PLANT OF CHARLES L. BLANTON.

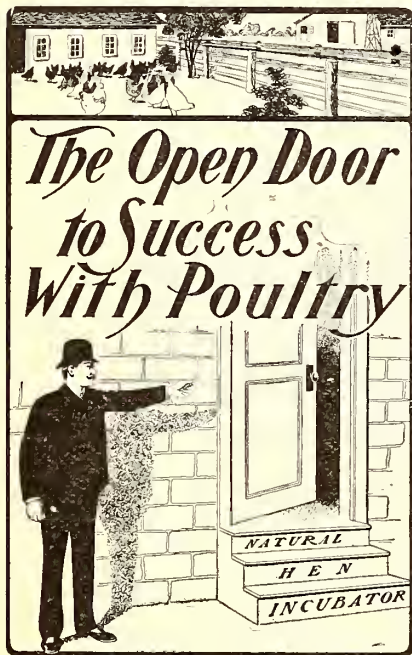
85c per 100 sq. feet
with caps and
nails.
In use by
thousands of poultrymen.
For samples and circular
address

SWAN'S EXTRA HEAVY FELT ROOFING.

The A. F. SWAN CO., 116 Nassau St., New York.

AN ATTRACTIVE BOOK.

"The Open Door to Success with Poultry" is the title of the attractive new catalogue of the Natural Hen Incubator Company of Columbus, Nebraska. It describes the very ingenious and successful method of hatching chicks by the Natural Hen Incubator which is used in 100,000 poultry yards. A number of pages in the new catalogue contain some of the strongest testimonials ever written by poultrymen, relating the remarkable success by the use of this invention. This device was patented in October, 1901, and another patent is now pending. Improvements have been made from year to year until



it has reached a point where the manufacturer and those who have used it regard it as nearly perfect. The expense is merely nominal, and everyone engaged in the poultry business should post themselves on this method of incubation as it is a winner and a money saver. Send a postal card for this free catalogue. Address, Natural Hen Incubator Company, Columbus, Nebraska, and mention THE FEATHER.

THE DEMAND FOR INCUBATORS.

Professional breeders in competing for prizes at the great shows generally exhibit artificially hatched poultry. The demands of chicken growers and breeders for very simple but reliable incubators grow greater each year. Geo. H. Stahl, of Quincy, Ill., manufactures incubators built on scientific principles and made of materials specially designed for the service they are to give, and so simple that they can be operated by any one. They are of different sizes, the fifty-egg, known so favorably the poul-

Valley Farm wins at the big shows, not at county fairs.



A "Sure Hatch" from a Sure Hatch Incubator,—Clay Center, Neb.

try world over as the Wooden Hen, and the 200-egg, being an enlargement of the former. In these incubators heat, moisture, ventilation are automatically and perfectly controlled. They are surprisingly cheap, the price is only \$12.80 for a first-class 200-egg incubator, which is claimed to hatch every fertile egg.

To any one interested in chicken raising or breeding of any kind, circular and catalogue will be mailed free upon request. Please mention THE FEATHER when writing.

KEEP A POULTRY RECORD.

Every poultry raiser ought to keep an exact record of the doings of the chicken-yard. The most convenient record we have seen is that issued by Humphrey & Sons, Joliet, Ill. It is simple

and at the same time most complete. They will send a copy free to every one of our readers who ask for it and mention THE FEATHER. At the same time you might ask, too, about the Humphrey green bone and vegetable cutter—the easy bone-cutter—guaranteed to cut more bone in less time and with less labor than any other made. See their ad.

GOOD WHITE ROCKS.

E. L. Douglass, Akron, Ohio, won at the Akron Show, on eight entries, in a class of thirty-five White Plymouth Rocks, as follows: Second cock; third hen; third cockerel, (tied for second); first, second, and third pullets (tied for fourth); second pen (missed first by one-eighth of a point). These birds were scored by F. B. Zimmer. See Mr. Douglass' ad in classified columns.

DON'T WRITE ME...

Unless you want eggs that will hatch good, strong, healthy chicks from stock that has won highest honors in hot competition all over the country. Price, \$2 per setting; 2 settings, \$3; 3 settings, \$4. Incubator eggs, \$5 per 100, from Banded and White Plymouth Rocks, White Wyandottes, Light Brahmas, S. C. Rhode Island Reds, and Pekin Ducks. For further particulars address

The Goodrich Poultry Farm,

Lock Box 5, West Duxbury, Mass.

B. F. GOODRICH, Proprietor.

NORTHUP'S MINORCAS SINGLE AND ROSE COMB.

EGGS GUARANTEED TO HATCH regardless of distance. Fowls successfully exported to all parts of the world. LARGE CATALOGUE FREE. 68-page book, "Minorcas All Varieties", history, mating, fitting for show, &c., fully illustrated, 25 cts., postpaid.

My Minorcas have never lost a special for large size, and have won more prizes in strong competition at New York, Boston, Washington, and other leading shows, than any other four strains combined, which proves the quality of stock I sell.

GEO. H. NORTHUP, Box 307, Raceville, Wash. Co., N. Y.

IN THE ARENA AGAIN.

Once again the Messrs. Bradley Bros., Box 900, Lee, Mass., entered the arena at the late New York Show, and won the major part of the prizes. Their winnings were as follows: Cocks, 2d; hens, 3d, 4th, and 5th; cockerels, 2d, 3d, 4th, and 5th; pullets, 1st, 2d, 3d, and 4th; exhibition-yards, 1st, 2d, and 4th; besides all specials excepting one. We show several illustrations of birds bred by them and THE FEATHER is always glad to tell its readers of their great triumph. See their ad always in our columns, and write them for their prices and circulars.

ANOTHER LARGE SHIPMENT.

Fishers Island Farm recently made a large shipment of Mammoth Bronze Turkeys to England intended for breeders on one of the large preserves in the northern part belonging to a wealthy London business man. These were especially fine birds and there is no doubt but they will render a good account of themselves the coming season.

They have another heavy order to be shipped the 13th of February consigned to Mr. C. F. Falkner, Dippen Hall, Farnham, Surrey, via Steamer Minneapolis, from New York. These birds are also intended for breeding purposes, and as they were some of the very best produced the past season by this well-known farm, no doubt their progeny will be a credit to the famous flock from which they were selected.

All of their English shipments have been uniformly successful in reaching their destinations in good condition and in producing the very best results. English turkey raisers are just beginning to appreciate the fine points and strong and vigorous constitutions of the American-raised Bronze Turkey. Those bred by Fishers Island Farm are especially desirable as regards these necessary qualities, as they have an immense range to feed over and get their entire living throughout about nine months in the year and the remaining three months require but very little extra feeding, thus they are not over-fed and

are able to build up strong, hardy, and vigorous constitutions which stand them in good stead in all kinds of climatic changes.

A postal card or letter will bring to you catalogue and full information regarding these grand birds, also of their world-wide strains of Barred and White Plymouth Rocks, Indian Games, and Pekin Ducks. See their ad in this number of THE FEATHER.

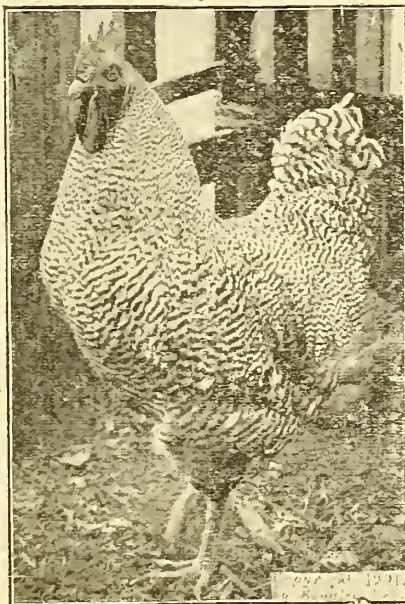
NORTHUP'S MINORCAS.

George H. Northup has a new ad in this issue. In sending us copy for same he enclosed his 1902 announcement which is to supplement the large catalogue which he has been sending out and gives prices on the stock he has to dispose of. It also gives new price-list of eggs and hints regarding Minorcas which all who are interested in the breed ought to read. Mr. Northup's great success with Rose Comb Black Minorcas shows that he is a very skillful breeder, as well as a correct judge of what Minorcas ought to be. He won on Rose Combs at Philadelphia all the prizes which he competed for except third for cockerel, and at Boston every prize competed for, winning at both shows first and second cock, hen, cockerel, and pullet and first pen in strong competition. In reporting the Boston Show the editor of *Reliable Poultry Journal* says that he examined Mr. Northup's birds, (Rose Combs) and that "they are true Minorcas, large in size, typical in shape, and sound and brilliant in color. His cockerels are fine as silk and good enough to win in the single-comb class." See his ad, write him, and mention THE FEATHER.

UNABLE TO SUPPLY THE DEMAND.

Fishers Island Farm, Fishers Island, N. Y., is compelled to acknowledge its utter inability to supply the demand for its famous Bronze Turkeys. A heavy trade, both foreign and domestic, has taken every bird that can be spared. It is still headquarters, however, for Barred and White Rocks and Cornish Indian Games of the finest breeding,

Valley Farm, Simsbury, Ct., ships eggs that will hatch well.



PAIR OF BIRDS BRED BY BRADLEY BROS., LEE, MASS.

Sired by a cousin of "Grandson's Brother 5th." Sons and Brothers of this bird were among Bradley Bros.' winners at New York, 1902.

A son of "Grandson's Brother 5th." Almost every large show this season has been won by a bird bred from this line.

and is especially strong in breeding males. We advise everyone to send for their illustrated catalogue which will be mailed free.

TOO LATE FOR CLASSIFICATION

MONEY-MAKERS are the four new varieties of Wyandottes. Partridge Wyandottes, brilliant plumage. Dark Brahma Wyandottes, Silver Penciled, beautiful soft gray. Violet Wyandottes; bunch of violets. Sicilian Wyandottes, lay at four months. 8 first prizes, 3d, 4th, 5th and 6th Great Boston Show '02. C. C. LORING, River Farm, Dedham, Mass.

EGG-RECORD 242. Rose Comb Brown Leghorns exclusively. Eggs, \$1.50 and \$1 per 15. A few choice cockerels to spare. F. BUSHNELL, Chatham, N. Y.

ROSE COMB WHITE LEGHORNS exclusively. Eggs for hatching, 15 for \$1; 30 for \$1.50; 45 for \$2. F. C. LANGWORTHY, Leonardsville, N. Y.

CLOSING OUT SALE of Silver Spangled Hamburgs at \$1 each; \$2.50 per trio; \$5 per six; also eggs for hatching at \$1 per 15. Stock and eggs guaranteed. RALPH EVERITT, Spring Garden, Pa.

KULP STRAIN WHITE WYANDOTTES, farm raised. Eggs for hatching, \$1.50 per 15; \$2 per 26. Barred Rocks, good strain, heavy layers, brown eggs, \$1 per 15; \$1.75 per 30. Satisfaction guaranteed. W. T. FOSTER, Box 281, Woodstown, N. J.

IF YOU WANT winter egg-producers get my Peerless Strain R. C. Rhode Island Reds. Bred from selected winter layers for five years. Vigorous stock, good color, ideal shape, and red eyes. Eggs, \$1.25 per 13; 26 for \$2. Address L. R. BROWNE, Heart Lake, Pa.

TUSCARORA VALLEY STOCK FARM—Houdans, Light and Dark Brahmas, White Rocks, Silver Laced and White Wyandottes, Single and Rose Comb Rhode Island Reds, Single Comb White and Buff Leghorns, Rose Comb Brown and White Leghorns, and White Cochins. Eggs, \$1 per 15; \$4 per 100. Mammoth Bronze Turkey eggs 25 cents each. Registered Berkshire Pigs for sale. All stock guaranteed best strains. T. I. COATES, South Addison, N. Y.

Poultry Keepers Need the Poultry Keeper.

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CHOICE EGGS FOR HATCHING from pure-bred Single Comb White Leghorn, Buff Plymouth Rocks, and Bronze Turkeys. If interested write. **T. D. SCHOFIELD**, Woodstock, N. H.

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I MAKE A SPECIALTY of Blue Andalusians, and during 1901 and 1902 won 12 first prizes at Chicago, St. Louis, Atlanta, and Indianapolis. Illustrated circular for stamp. EDWARD L. C. MORSE, 8208 Cornell Ave., Chicago.

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LOOK HERE! BARGAINS! 500 Choice Silver Spangled Hamburgs and Light Brahmas to go quick at the low price of \$2 each; \$5 per trio. Satisfaction guaranteed or your money cheerfully refunded. Order to-day; they must please you. Eggs from twenty-one varieties. Catalogue four cents. O. D. BRINSER & BRO., Middletown, Pa.

HOUDANS

HOUDANS EXCLUSIVELY. Have ten years' record as winners at biggest shows. Quality unsurpassed. Big, dark breeding cockerels specialties. Eggs in season, \$3; special settings, \$5 per 15. FRANK MCKENZIE, Concord, Mich.

PEDIGREED HOUDANS. Boston, Philadelphia, 1900, Hagerstown, Pan-American, 1901. 50 prizes, including 9 firsts and 3 silver cups. Correspondence invited. REV. C. PETERSEN, Linneus, Me.

HOUDANS exclusively McKenzie strain direct. None better. Eggs a specialty—\$2 per 15; \$3.50 per 30. Reasonable hatch guaranteed. EMORY CRUZAN, Bloomington, Ill.

SPANISH

WHITE FACE BLACK SPANISH Exclusively. Bred them carefully for 40 years on free range. Circular free. Mention The Feather. JOHN BENNETT, Sunman, Ripley Co., Ind.

ANCONAS

BECKETT'S ANCONAS. Won first prizes at Pittsburgh Show, 1901. Pen No. 1, Imported prize-winning cock and hens, \$2.50 per 15 eggs. Pen No. 2, imported cock and domestic hens, \$2 per 15 eggs. Pen No. 3, imported cock and domestic hens, \$1.50 per 15 eggs. Stamp for answer. MRS. W. M. BECKETT, Importer and Breeder, 6887 Hamilton Ave., East End, Pittsburgh, Pa.

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AMERICAN DOMINIQUE. Won eight 1st prizes at three shows. Free-range stock. Eggs, \$2 per 15; \$3 per 30. J. A. DUDGEON, Middletown, N. Y.

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BELGIAN HARES of the right kind. Imported and domestic. Old and young stock. Reliable Headquarters. Stamp for prices. Booklet of breeding and management, 10 cents. G. T. KENNEDY, Hackensack, N. J.

SOUTH BUFFALO RABBITRY, 1849 Seneca St., Buffalo, N. Y. Belgian Hares with red feet from choicest strains. Fashoda, Sunrise, Banbury, Lord Collyer, and others. Can please you in stock and prices. Also meat stock. Write wants.

IMPORTED AND DOMESTIC BELGIAN Hares. THE IDEAL RABBITRY, E. L. Barclay, Proprietor. Member Southern Belgian Hare Association. Vice-President National Capital Flying Club. 821 21st Street N. W., Washington, D. C. \$10 trios my specialty. My Belgian Hares represent the leading strains of America and England. My facilities for obtaining imported stock at low prices are unsurpassed. Breeding Ranch, Kansas City, Kan. My buyer is stationed at Upton Park, London. "True Gold" (imported), winner of 5 firsts and 3 specials. "Duke of Connaught" (imported), winner of 2 firsts and 1 special. Stud fee \$5. Meat stock, \$5 per trio. E. L. Barclay, Jr., Manager. Eastern Agent for the Lanphre Belgian Hare Importing Co., the largest importers in the U. S.

HIGH-GRADE BELGIANS at reasonable prices. Fashoda and Lord Robert's stock. Write me your wants. Hares from \$1 up. ERWIN L. SHOVE, Middletown, N. Y.

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PEKIN DUCK EGGS FOR SALE—From pure-bred ducks. Pecunia strain. Birds weigh as high as 12 pounds. THE CREST, Red Hill, Va.

AYLESBURY DUCKS A SPECIALTY. I have the best that money can buy. Score, 95-97. Eggs, \$2.50 per 11. JNO. MORRISON, Cass City, Mich.

TOULOUSE GEESSE and Rouen Ducks, bred from Madison Square Garden, Philadelphia, and Pan-American prize-winners for sale. CLARENCE W. KING, Romulus, N. Y.

IMPERIAL PEKIN DUCKS. Large fertile eggs \$1 per thirteen. 60-egg Lincoln Incubator, \$4. 220-egg Cyphers, \$15. FRANK HARVEY, Box 9, Lansdowne, Md.

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WHITE HOLLAND TURKEYS, bred from the winners at Madison Square Garden. A fine lot of yearling birds for sale; also hundreds of young birds that have the large bone you need to improve your flock, some choice exhibition birds including the 2d old tom, 1st and 3d-prize young toms at Madison Square Garden, 1901. A. J. KREUTER, Fayette, N. Y.

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MY BRONZE TURKEYS made another sweeping victory at Madison Square Garden. First and second cock, first and third hen, first and second cockerel, first and third pullet, first pen. For four years my birds have swept the deck at New York. 100 grand specimens for sale, mated not akin. My breeding toms weigh 45 and 47 pounds, hens 22 to 33 pounds. Stamp for reply. GEO. WOLF, Seneca Falls, N. Y.

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BEAGLES.—40 puppies from pedigree stock and from hunters. Grand in type, color, and size, plenty fit to show and win. "DEBONAIR," Gloversville, N. Y.

ONE COLLIE DOG, 2 years old, Dark Sable and White, \$8, or will exchange for latest camera. Pea Fowls, \$6 a pair, '01 Birds; also Spinning Wheels, \$2 each. Grandfather's Clock, 8-day Moon, \$45. Stamp for description. F. D. KINTZ, Seven Valleys, Pa.

COLLIE PUPPIES. Wellsbourne Jennie, by Brightwood Rover, imported son of Ch. Balgreggie Hope, sire and dam fully pedigreed, containing many champions. Three puppies full white collars; the others with white markings. Prices reasonable. W. W. KULP, Box 20, Pottstown, Pa.

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100 FANTAILS for sale. Blacks and Whites, breeders and show birds in lots to suit, imported stock, no better in America. Prices reasonable. E. A. HOLBROOK, Winchester, Mass.

FOR SALE CHEAP. Fifty old breeding Homers, Tumblers, Jacks, Pouters, Magpies, in all colors; also young birds of same varieties. All birds guaranteed. LARRY F. GOLDY, East Third St., Williamsport, Pa.

WHITE FANTAILS. First-class birds for sale, \$3 to \$5 per pair. Won 1st at Hartford on hen, eleven in class. PHILIP MONTGOMERY, Hartford, Conn.

ALL VARIETIES FANCY PIGEONS.—Pouters, Carriers, White Barbs, White Jacobins, White Homers, Turbits, Magpies Red and Black, White Owls and Fans, Tumblers, Barred Rocks, Thompson and Porter. Eggs, \$1.25 per 13. White Wyandottes, Duston and Hunter. Eggs, \$1 per 13. FRED F. HIBNER, East Boundary Ave., York, Pa.

DRAGONS IN ALL COLORS.—Also Homers, Trumpeters, Tumblers, Owls and White Cochins Bantams. Satisfaction guaranteed. Write for prices. JOHN HERTZ, Hanover, Pa. Box 446.

FOR SALE CHEAP, to make room, eighteen pairs White Duchesse Pigeons. Stock from lofts of M. Bergey, Souder ton, Pa. Address F. T. MARCHAND, Annapolis, Md.

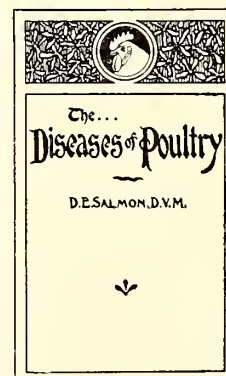
POUTERS, CARRIERS, Dragons, Homers, Barbs, Fantails, Orientals, Turbits, Owls, Tumblers, Jacobins, Magpies, Swallows, Archangels, Guinea Pigs, Mice and Maltese Cats, \$1 pair up. No circular. State wants. DAVID G. CLAUS, Jacksonville, Ill.

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POUTERS, all colors. Jacobins: red, white, and yellow. White Fans and Saddle Fans, two pairs Parlor Tumblers, bred from the best strains in the country. Satisfaction guaranteed. CHAS. F. CAMPBELL, Sunbury, Pa.

Classified Ads Continued on Next Page.

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"The Diseases of Poultry," by D. E. Salmon, D. V. M., is the only standard and reliable work published in the English language on this important subject to every poultryman. The author is too well known to need an introduction, and his works are adopted as authentic by everyone. This is his latest book, and all who breed fowls, whether for pleasure or profit, should have a copy of it. This great book has twelve complete chapters treating on all known diseases which affect poultry.

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LARGEST AND BEST STILL. We have again added to our lofts of pure-bred White Homers, the best Belgian blood obtainable regardless of cost. Homing instinct very strong. Birds have returned from 780 miles distant. Very prolific breeders. Youngsters and exhibition birds at prices that make sales. Write your wants. No postals. **LITTLE EDEN LOFTS, R. R. No. 4, Grand Rapids, Mich.**

HOMING PIGEONS.—I have a number of fine cocks in Blue and Black Chequer and several pairs of mated birds (excellent breeders) that I will dispose of at reasonable prices. The above birds are pure-blooded Homers, and bred from reliable stock. Also a limited number of youngsters bred from the same strain. **G. R. BAYLE, 1643 Race St., Philadelphia, Pa.**

50 PAIRS FINE BREEDING HOMERS FOR sale for best offer for the lot. All colors. **L. E. NEECE, Box 246, Williamsport, Pa.**

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COUNTY LINE POULTRY FARM breeds prize-winning Buff, Barred, and White Rocks, Light Brahmas, Buff and Brown Leghorns, Buff Cochins Bantams, Rouen Ducks Toulouse Geese, and Mammoth Bronze Turkeys. Winners at Washington, Rochester, Hamburg, Fredonia, and Elmira are in my this-year's breeding-yards. New catalogue for stamp. Yards situated 40 miles west of Rochester, N. Y. on R. W. & O. R. R. Address, **A. G. BARLOW, Barkers, N. Y.** Please mention *The Feather*.

COCKER SPANIEL puppies for sale out of my black dog Nubbins—**A. K. C. S. B., 55892.** Also have a few Partridge Cocker cockers for sale. Eggs in season. Write for prices. **E. A. MULLEN, Marysville, O.**

BEAN makes a specialty of all kinds of Buff fowls. 500 premiums won under Butterfield, Felch, Pierce, and Holden. Poultry supplies at cut prices. Yours for Buffs. Write, **W. M. BEAN, Anoka, Minn.**

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ALL POPULAR, STANDARD, and LATEST varieties poultry, ducks, pigeons, hares, etc. Eggs cheap. Grand illustrated, descriptive book mailed for 6 cts. **A. G. CLEMMER, Morwood, Pa.**

SOME OF MY BARGAINS: 9 S. C. Buff Leghorns, \$10; 6 S. C. Black Minorcas, \$8; 8 S. C. White Leghorns, \$8; 15 S. C. Brown Leghorns, \$15; 10 B. Rocks, \$15; 3 Laced Wyandottes, \$3. **J. M. CASE, Stony Point, N. Y.**

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MEXICAN DOUBLE YELLOWHEAD PAR-rots, imported Hartz Mountains, Andreasburg Canaries, Mocking Birds, Fancy Finches, Parakeets, Hares, Cavies, etc. Gold Fish, Aquariums, and Cages. Birds bought, sold, and exchanged. **GEM CITY BIRD STORE, Dayton, Ohio.**

GEM CITY BIRD STORE, Dayton, Ohio, California Mountain, Valley, Mexican, Crested Quail; Mexican Parrots, Parakeets, and Rare Birds all kinds. Stock bought, sold, and exchanged.

\$1 FOR 15 EGGS. Cornish Indian Game, Light Brahmas, White and Silver Wyandottes, Barred Rocks, White Cochins Bantams; 13 Pekin Duck eggs; \$1.50 for White Indian Game eggs. Stock for sale. **GERBIG & MILLER, Chambersburg, Pa.**

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FAVEROLLES AND PARTRIDGE WYAN-dottes. Some fine Brown Leghorns for sale. 27 prizes on 28 entries at Cleveland, Ohio, Dec. 1901. Eggs in season. **FRED. MOORE, JR., Youngstown, Ohio.**

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C. O. SHELLS, 20 bags 30c. each; 5 bags 35c. each. Flint Grit, 20 bags 25c. each; 5 bags 33c. each. **CLEVELAND POULTRY COMPANY, Plattsburgh, N. Y.**

BUFF COCHINS, BLACK, BROWN, AND Buff Leghorns, White Games, Golden Wyandottes, and Barred Plymouth Rocks. Eggs in season. Write for stock. **N. B. WARNER, Hamilton, Va.**

EGGS FROM THIRD-PRIZE BARRED Rock cockerel at Philadelphia, \$3 per 13. White Rocks, White Wyandottes, Black Minorcas, Black Langshans. Eggs, \$1 per 13; \$5 per 100. **WM. WISLER, Pine Iron Works, Pa.**

BUFF ROCK EGGS, \$1 per 13; \$2 per 30. Single Comb Brown and White Leghorn Eggs, \$1.25 per 30. **J. WOLF EVANS, Spring Mills, Pa.**

EGGS FROM PRIZE WINNERS.—Buff and White Rocks; Buff, Silver and Golden Wyandottes, Rose Comb Brown Leghorns, Blue Andalusians. Settings, \$1.50. **SOLT & EADER, Frederick, Md.**

TO INTRODUCE MY BREEDS will sell eggs at 75c. per setting; three settings, \$2. Barred Rocks direct from Bradley. White Rocks pure Fishel blood. White Wyandottes, pure white. Black Minorcas and Langshans of the best strain. I sell the same as I use myself. **C. L. YERGEY, Pine Iron Works, Pa.**

P. O. STAMPFLE, Barberton, Ohio, breeder of fancy fowls. Sultan, Japanese Silkies, Rose Comb Black Bantams and Rose Comb Brown Leghorns. Eggs and stock for sale.

BLACK MINORCAS, White Wonders, Sherwoods, Rose and Single Comb Buff and Single Comb White Leghorns, White and Buff Plymouth Rocks, White Wyandottes, Rhode Island Reds. Eggs, \$1 for 15. Catalogue, giving description and winnings, free. **HILLSIDE POULTRY FARM, Cortland, N. Y.**

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MONTAUK ROCKS, White Leghorns, Silver Sebright and Buff Cochins Bantams. The very finest and very lowest prices. Eggs \$1, \$1.50. **JAMES HALLENBECK, Altamont, N. Y.**

CRAMPS AND CHOLERA, that little chickens are subject to, positively cured, and without fail, in second stage, with Martenis' Universal Cramp and Cholera Cure. Trial package, 25c. Regular size, 50c. and \$1. **S. D. MARTENIS & CO., Annandale, N. J.**

KLONDIKES!—The new utility breed of chickens. Good layers. Splendid table birds. Beautiful and valuable feathers. Our book, containing history, cuts and description, sent free. **W. R. BLACK, Bolivar, Ohio.**

OUR PRICES ARE RIGHT, OUR STOCK the best. Leghorns, Rocks, Wyandottes, Minorcas. Large catalogue free. **PLEASANT VIEW POULTRY FARM, Box 7, Hopewell, N. J.**

INCUBATOR EGGS, \$3 per hundred; White Rock cocks crossed with Barred Rock hens. Straight White Rock eggs, \$5 per hundred; S. C. Brown Leghorn eggs, same. Orders booked now. **FRANK HARVEY, Box 9, Lansdowne, Md.**

BLACK TAILED JAPANESE and BUFF Cochins Bantams, Silver Laced Wyandottes. Stock and eggs for sale. Write your wants. **G. A. GOODRICH, Galena, Ohio.**

ALL VARIETIES prize, standard poultry, eggs, pigeons, hares, Collies, ferrets, supplies at farmers' prices. Satisfaction guaranteed. Catalogue free. **J. D. SOUDER, Telford, Pa.**

TOULOUSE GESE EGGS, 25 cts. each; Brown Leghorn and Pekin Duck eggs, 4 cts. each. Pullets, \$9 dozen, best stock. **SYD. JOHNSON, Parkersley, Va.**

13 EGGS 70 CENTS.—White and Barred P Rocks, Wyandottes, Rose and Single Comb Brown and White Leghorns, Black Minorcas, 15 other varieties. Circular, 2 cents. **J. A. RUBRECHT, Telford, Pa.**

MITES, LICE—Black, Red. For years have prevented in roosts, nests, brooders, coops; inexpensively prepared yourself. One application. Recipe, 50c. **MISS M. RICHMAN, Sharptown, Salem Co., N. J.**

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EGGS FOR HATCHING from choice birds. Black Minorca, White Leghorn, White Wyandotte, and Buff Rock, \$1.50 for 13 eggs. **GRAY ROCK FARM, Scarsdale, N. Y.**

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BUFF ORPINGTONS, Buff and White Wyandottes, White Klondikes. Best blood obtainable. Stock and eggs for sale in season. **T. W. BEECHER & CO., Reed City, Mich.**

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GRANITE STATE POULTRY YARDS. Pure-bred Buff Plymouth Rocks and White Wyandottes. Eggs, \$1 per 15. **H. L. & H. W. PEASLEE, Bedford, N. H.**

CHARLES'S THOROUGHbred POULTRY. 10 leading varieties: Barred and White Plymouth Rock, Light Brahmas, Buff Cochins, White and Black Wyandottes, Single Comb Black Minorcas, Rose and Single Comb Brown Leghorns, Buff Leghorns, Games, and Silver Spangled Hamburgs. Eggs in season, \$1 per 13. Also Belgian Hares. **H. H. CHARLES, Route No. 1, Lancaster, Pa.**

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EGGS, \$1 per 15; \$2 per 40, from thoroughbred Light, Dark, and Buff Brahmas; Barred, White, and Buff Plymouth Rocks; Buff and White Wyandottes; Single Comb White, Brown, and Buff Leghorns; Rose Comb Brown Leghorns. 17 years' experience in breeding fancy fowls. Catalogue free. Mention *The Feather*. **S. K. MOHR, Coopersburg, Penn'a.**

ALL BREEDS OF POULTRY, Pigeons, Rabbits, Belgian Hares, Cavies, Pheasants, and all Pet Stock. Eggs and stock for sale. Our large illustrated circular FREE. **EXCELSIOR WIRE & POULTRY SUPPLY CO., Dept. T, 26 & 28 Vesey St., New York City.**

PEAFOWLS, Guineas, Registered O. I. C. Hogs. Eggs, \$1 per 13, from Cochins, Leghorns, Brahmas, Games, Hamburgs, Plymouth Rocks. Wanted Pheasants. **ENOCH M. BAILEY, Albion, Ills.**

EGGS. Now \$4 per 100, Buff Wyandottes' Buff Rocks', White Rocks'; \$5 per 100 for Buff Orpingtons'. Also a fine lot of Collie pups and brood bitches. **E. A. STANDISH, Andover, Conn.**

BACON HALL POULTRY FARM. Toulouse Geese, Colored Muscovy Ducks, Birds and eggs. Satisfaction or no pay.
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LEWIS HARTRAUFT, Terre Hill, Pa. Thoroughbred Black Langshans, Buff Leghorns, Blue Andalusians, and Indian Games. Eggs and stock for sale. Write for prices.

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FOR SALE OR EXCHANGE. Ten-gallon ice cream freezer run by hand or power; also packing tubs and cans; a set of silver ware all good as new; run one season; will exchange for cattle or poultry. Address H. S. WHINERY, Kump, Md.

WANT EGGS? Then make hens lay. Feed them Sea Shells; nothing better; hundreds testify to their merits; \$1.25 per barrel; samples, 2c. **SHELL COMPANY,** Guilford, Conn.

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FOR SALE.—Three young thoroughbred Mammoth Bronze gobblers. From a bird that dressed 25 pounds. There is no choice. \$3 each. Address M. A. HUTTON, Clopper, Md.

FOR SALE.—Twenty-one 360-egg Cyphers Incubators. Eighteen of 1909 style, three of 1899. Have been used but for four hatches. Guaranteed as good as new in every particular. **JOHN L. SWAYZE,** Newton, N. J.

ROMAINE'S BOILED BEEF AND BONE, \$2.25 per 100 pounds. Choice Clover Meal, \$2 per 100 pounds. Hog and Cattle Feed, 90c. per 100 pounds. **CASH FEED CO.,** 204 S. Paca Street, Baltimore, Md.

OYSTER SHELLS, 100 pounds, 40c.; 1,000 pounds, \$3.50; ton, \$6. Shipped from Baltimore, Md., 20c. per 100 pounds. Additional from Cleveland or Chicago. **I. SCHOTT,** New Pittsburgh, Ohio.

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BUY EGGS where you are sure of getting chicks. We duplicate every infertile egg bought of us, free. Each variety has free farm range on separate farms. Barred P. Rocks, S. C. White and Brown Leghorns, White, Buff and S. C. Wyandottes and Black Minorcas. Price of fresh eggs, \$5 per 100; \$1 per 15. **CEDAR HILL FARM,** Sangerties, N. Y. Box 390.

JUST THINK OF IT! Eggs from Boston, New York, Philadelphia, Hartford, and Stamford winners, only \$2 per setting. Buff Wyandottes Exclusively. Circular free. **NUTMEG POULTRY PLANT,** James M. Gilbert, Manager, Box 413, Bethel, Conn.

THE HOME OF THE NUGGET STRAIN, pure, of Buff Rocks and Arnold's Buff Leghorns. Fifty cockerels for sale. Eggs, \$2. **D. C. KALTREIDER,** Red Lion, Pa.

ROSE COMB BROWN LEGHORNS, from Kulp's 242-egg strain direct. Also Single Comb Browns and Barred Rocks; setting eggs only. No more stock till Fall. **FRED. B. RODMAN,** 142 Shepard St., Lynn, Mass.

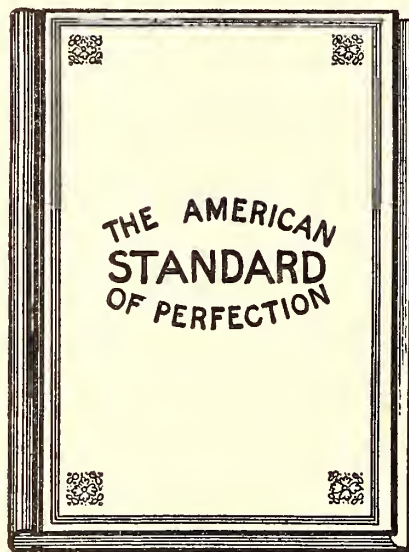
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BUFF WYANDOTTES.

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ROSE COMB WHITE LEGHORNS.

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THE whole country knows of the wonderful success that the Riverside Farm has made on the above varieties at the leading shows in America. In five years our birds won at New York, Boston, and Washington, 186 firsts, 60 gold specials, 18 silver medals and 6 silver cups. Our line of blood is unsurpassed, and we are producing specimens that are winning all over the country. The blood is pure and we breed only the best. We can supply your needs. Send for illustrated circular giving full prize records of our birds. We also breed Guernsey Cattle, Scotch Collies, and Fox Terriers. Satisfaction guaranteed in every particular.

Address,

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JAMES FORSYTH,

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Our collection of beautiful poultry pictures is unexcelled. We have prepared these plates at considerable cost and do not hesitate in saying that they are the best art pictures of poultry ever published. Many thousands of them have been sold, and everyone interested in poultry should have them in their homes. They are printed on best quality of paper and suitable for framing. All lovers of poultry should by all means possess these beautiful art pictures. Following is a list of the pictures on hand in colors and half-tone engraving. These are sold in sets of six for 50 cents. Select any six of the list you may wish for 50 cents, or a set of twelve for 75 cents. When ordering a set be sure to give the numbers of the ones you want.

List of Color Pictures.

1. Light Brahmas. 2. Trio White Wyandottes. 3. Pair White Wyandottes. 4. White Wyandotte Male. 5. White Wyandotte Female. 6. Buff Wyandotte Male. 7. Buff Wyandotte Female. 8. Silver Laced Wyandotte Male. 9. Silver Laced Wyandotte Female. 10. Golden Laced Wyandotte Male. 11. Golden Laced Wyandotte Female. 12. Partridge Wyandotte Male. 13. Partridge Wyandotte Female. 14. Barred Plymouth Rock Male. 15. Barred Plymouth Rock Female. 16. Buff Plymouth Rock Male. 17. Buff Plymouth Rock Female. 18. White Plymouth Rock Male. 19. White Plymouth Rock Female. 20. Black Minorca Male. 21. Black Minorca Female. 22. Black Langshan Male.

Half-tone Pictures.

23. Barred Plymouth Rock Male. 24. Pair Black Langshans. 25. Pair Buff Leghorns. 26. S. C. Brown Leghorn Male. 27. Pair Silver Spangled Hamburgs. 28. Pair White Crested Black Polish. 29. Pair Barred Plymouth Rocks. 30. Buff Cochins Female.

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This new picture is our greatest triumph. It is 12½ x 18½ inches and is most attractive for framing. The plate is what is known in art as a duograph, and is a most perfect representation of steel-plate engraving. The subject of the picture appeals to all lovers of poultry, and makes a picture that will be appreciated in any home. The scene is a beautiful girl standing in the midst of a flock of Standard Light Brahmas, with the farm-house and orchard in the distance. It is a sunshiny scene and appeals to the eye at sight. This great picture securely mailed in tube for 25 cents each, five for \$1. Larger quantities at special prices.

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WE MACK WOODSTOCK

W. E. Mack,
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Woodstock, Vt.
Well-Bred
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EVERGREEN FARM,
White Wyandottes,
Write for
Wants.

"Triumph Strain."

Fifteen years of careful breeding has produced a strain of fowls unequalled in practical qualities, and winners of the highest honors in the show-room. In Boston Show, 1901, I had only 4 birds in a hot class of 201, won 2d on cockerel, 3d on hen, 6th on cock, and two specials, including special for best-shaped cockerel. I breed and raise the birds I handle and exhibit. My breeding-yards for 1901 are composed of very choice birds; among them is the noted Stay-White cock, winner of 4th and special for whitest male, Boston, '99, 4th New York, '00, and 2d St. Louis, '01. Also "Triumph," winner of 2d and special for best-shaped cockerel, Boston, '01. Stock and eggs for sale.

1895 Winners Wherever Shown. 1902

Noyes' Buff Rocks win the laurels at every show in the State this season. At Torrington, Hartford, Danbury, Waterbury, Wallingford, Stamford, and Bristol; also Providence, R. I. At Boston, C. on pullet (42 competing), C. on hen (22 competing). Send for circular giving complete awards and full particulars. Eggs from very best pens, \$2 per 15 straight, No seconds. Mention The Feather.

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SPECIALIST BREEDER, - - QUAKER HILL, CONN.

1881 Orr's Silver Wyandottes. 1902 Always at the Front.



At the Great Pan-American, Sixty Silvers shown by Ten Competitors. "The finest show of Silvers ever seen." Beaver Hill Farm (T. E. ORR, Prop.) won just one-half of all cash paid on regular premiums.

1st and 2d cocks, 1st and 2d hens, 2d pullet, and 2d pen, is not a bad showing. A few breeders for sale, \$3 to \$10 each. Eggs, \$3; 4 settings \$10.

T. E. ORR,
552 Liberty St.,
Pittsburgh, Pa.

.. MY WINNINGS ..

At Malden, Mass., Dec. 4-7, in strong competition, but strengthen my reputation for breeding a quality of **Barred Plymouth Rocks** which can not be excelled. I won 1st and 2d on cocks; 1st and 2d on cockerels; 1st, 2d, and 3d on pullets; 3d on hen; 1st and 2d on pens. I have some splendid specimens of **Barred Beauties** for breeding stock at \$4 and upwards. Eggs, \$2 per setting; \$8 per 100. Circular free. **J. W. RANDALL, Prop., Meadowview Poultry Yards, 403 Salem St., Malden, Mass.**

L. O. BROMLEY'S Silver Creek, Browns, 1901. New York, This season at Washington, D. C. on 4 entries, 1st breeding-yard, 1st hen, and 4th pullet. Have won at Rochester, N.Y., Erie, Pa., Boston, Mass., and several other shows. Pullet-bred cockerels from the above winnings, \$5 each. Eggs \$2 per 15. Catalogue for stamp.



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Treat your poultry as you do your other stock. They can scratch and get what they need in summer, but in winter feed them

Cut Clover Hay

and they will respond quickly with large egg yield. **Our Cut Clover** is made from specially prepared, air-dried, second growth stock, which we offer at the very special price of \$1.50 per 100 lb. bag.

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Standard, bred-to-lay S. C. W. Leghorns, S. C. B. Leghorns, Black Minorcas. Choice breeding and exhibition stock, in pairs, trios, or any size pen. Fine selected ck's \$2 and up. Eggs, \$2 per 15; \$8 per 100. **S. G. SELOVER, Owasco, Cay. Co., N. Y.**

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Catalog of **The Perfected Von Culin** free. Practically perfect. Satisfaction or no pay. Successful result of 25 years' experience. Prices \$7 up. Address **THE W. T. FALCONER MFG. CO.,** Sta. J, Jamestown, N. Y.

For Sale Entire Stock.

Wm. H. Halteman, Breeder of fine Buff Rocks, died in January. His stock is placed with me for sale. Not a bird reserved. Every bird is a selected one, bred from the leading strains out of the summer's flock. Because of high feed they have been culled down to the very best. 1 fine, two-year-old, solid Buff cock, 1st at Middletown, Pa., \$8. 1 fine, one-year-old, solid Buff cock, comb hurt, \$5. Three cockerels selected for pens, \$5. 10 hens, pen 1, each \$2. 35 pullets and 5 hens, each \$1.50. These are the breeding pens mated for 1902 and will be taken just as they come, all worth, as you well know, much more. 15 July pullets, every one a select, even, light Buff, \$1 each. 8 July cockerels, same, \$1 each. 10 grown cockerels, nice ones, \$2.50 each. Speak quick, for they will all be sold in a short time. It is a rare chance.

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Is It Wise to Guess at Results when you may be absolutely sure about it!

If the eggs are good and you put them in a **Reliable Incubator** and follow instructions, you are sure to get a satisfactory hatch. If you put the chicks into a **RELIABLE BROODER** you will raise every one that could be raised in any other way. Our **20TH CENTURY POULTRY BOOK** tells why and a hundred other things every poultry owner should know. Sent for 10 cents. We have 115 yards of thoroughbred poultry.

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Now is the time you want eggs!

By feeding your fowls a little Banner Egg Food and Tonic

Your hens will lay lots of eggs, and you can double your profits, as this is the season of the year when fresh-laid eggs are scarce. Remember, this Tonic does not force your hens to lay, it only brings them up to the pink of condition, which is necessary for egg-

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To those who have never used it, we simply ask you to give it a trial, and be convinced.

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I have a complete line of Am. Ply. Rock Club Ideal cuts. "Ringlet" pullet cockerel for sale. Send for photo.

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White Plymouth Rocks.

Stock birds of large size, having fine color, and of excellent strain.

Eggs, \$2 per setting. A good hatch guaranteed. Write for information.

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White Wyandottes, Barred Rocks, R. C. Brown Leghorns.

EGGS.—Incubator Barred Rock and Leghorn eggs, \$5 per hundred.

At the Madison Square Garden my White Wyandotte cock won 3d, with 17 behind him.

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S. C. WHITE LEGHORNS,

at 8c. apiece. Distance no objection. Send for circular. **JOS. D. WILSON,** Stockton, N. J.

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We are Wholesale Jobbers of all the best Standard Poultry Specialties and want to quote you prices on large or small amounts.....

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Mt. Rose Poultry Farm's Barred Plymouth Rocks (Thompson), Buff Wyandottes (Mattison), Silver Wyandottes (Hawkins), Pekin Ducks (Rankin), are not excelled in blood or quality at the price we ask for them. Stock sold, subject to return if not satisfactory. Illustrated circulars free.

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A SNUG FORTUNE!!! In raising BELGIAN HARES if you START RIGHT, it all depends on that! Don't buy inferior hares because they are "cheap" (?). Get the best—then you can't help making money! You can't buy a "scrub" animal of me. You can buy high-grade hares cheaper than elsewhere. Because I have ample facilities, handle only fine stock, breed intelligently. Correspondence solicited. **THE ROHLSSEN RABBITRY,** 659 Hirsch St., Chicago, Ill.



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Cures Indigestion, Slobbers, Snuffles, Barrenness, Abortion, Rot, and Paralysis. Especially good for breeding Does. Sent postpaid for 50c. Rabbitry size, \$1.

Hutch Record Cards free, send stamp.

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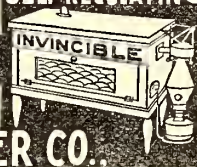
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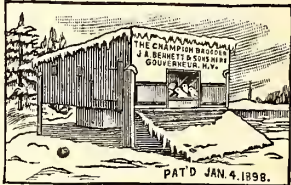
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IT has always been our aim to keep the Champion Brooder at the head as the best and cheapest artificial Chicken Raiser in the world. This season we place it on the market with another improvement added to its many perfections.

THE EASY CHICKEN FEEDER Is our latest improvement which easily and quickly teaches the chicks to help themselves to food and drink. No starving the chicks for two or three days on account of their not being able to eat. Our Easy Feeder does the business. It feeds them while you are away. Automatic and certain in its action. The Champion Brooder is the only brooder in the world having this patented device.

The \$5 Champion Brooder

Is the only brooder in the world which can be operated out of doors in zero weather equally as well as indoors. There is but one perfect brooder and that is the \$5 Champion. Facts are stubborn things so we submit the following:

"OVERLOOK,"

Montpelier, Vt., February 14, 1901.

J. A. BENNETT & SONS, Gouverneur, N. Y.

GENTLEMEN: My first flock of White Plymouth Rock chicks for 1900, hatched March 10th, and two or three days later they were placed in a "\$5 Champion." Almost daily in the first week of their out-of-door life the mercury at sunrise ranged from zero to seventeen below, and during one night nearly a foot of snow fell. The most severe test was a ten-below-zero night, with the wind blowing a gale at my hillside home. The thermometer in the brooder registered 80 when I raised the cover next morning.

The upper cut (an April 1st picture) shows two of your brooders on the lawn; the middle picture is a nearer view, and the little flock dimly seen in the brooder at the left, has in it every bird of the 4th prize exhibition-yard at the great Boston Show, 1901.

The lower picture shows the snow as it stood behind this brooder after the March storms. My little daughter is looking down upon the "early birds" struggling over a ground-bone substitute for the proverbial worm.

Comment upon the value of your wooden mother is hardly necessary. I shall confidently consign a flock of my best chicks, (if any hatch) to its tender mercies, in the same location, early next month. Very truly,

HERMON D. HOPKINS.

If you are in want of the best brooder made enclose stamp for our handsome catalogue and guide. 100-chick size, \$5. Size 3x3 feet.

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BLANCHARD'S WHITE LEGHORNS

The Leading Strain of Heavy Layers

Are no experiment, having been carefully selected and bred for over twenty years, with results that fully justify the claim that they are the greatest laying strain of Single Comb White Leghorns in existence. No labor or expense has been spared in building up and perfecting this strain, and while the production of large, pure-white, fancy market eggs has been the main object, **STANDARD QUALITIES** have not been neglected. They are large, vigorous, active, and handsome. Good winter layers, and keep at it all summer. Our birds are unexcelled for introducing new blood, or as foundation stock. **NO BETTER ANYWHERE AT ANY PRICE. STOCK FOR SALE. COCKERELS A SPECIALTY.** Illustrated circular free.

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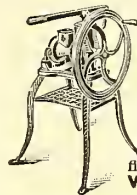
Many times as strong as regular Poultry Netting. Made from the best quality of Galvanized Steel Wire. Set Posts 20 feet apart. It

WILL NOT SAG OR BUCKLE

Will turn Calves, Hogs, Dogs, Wolves, Rabbits and Poultry. No top or bottom rail required. Size of Mesh, 2 inches. Size of Wire, No. 12 at top and bottom; intermediate line wires, No. 10; mesh wires, No. 18. **Sold at Anti-Trust Prices.** Also a full line of Farm and Ornate Fence. Send for free Catalogue. Address,

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Also Bone Mills for making phosphate and fertilizer at small cost for the farmer, from 1 to 40 horse power. Farm Feed Mills grind fine, fast and easy. Send for circulars. **WILSON BROS., Sole Mfrs., Easton, Pa.**



IT BEATS ALL.

The Natural Hen Incubator beats the old way of setting hens ten times over. 100 egg hatcher costs only \$2. 94,000 sold principally by agents. We want 5,000 active men and women agents for the new season. **Special terms with you—a large margin of profit. 10c egg formula and catalogue sent free, if you write today. Territory may be gone tomorrow.**

NATURAL HEN INCUBATOR CO., 8 9, COLUMBUS, NEB.

LEFFEL'S Unconquerable Barred Rocks

If you do not believe it, **SEND AND GET HIS CATALOGUE**, and it will tell you who scored his birds. He stands in front, with highest scores by leading judges. I. K. Felch gave one of his cockerels score of 95 points, and wrote across score-card, "Every doubt given against this noble big fellow;" weight, 11 lbs. H. A. Bridge gave one of his birds score 95 points. B. N. Pierce cut one of his cockerels one-half in color. L. G. Jarvis, Guelph, Canada, scored 4 birds 94%. J. Y. Bicknell scored cockerel 94%. Charles McClave 93% scores of birds. I have exhibited 25 times in past 8 years and won 24 times on cockerel, and tied the other one score. Sharpe Butterfield scored 3 cockerels in one show 93%. Send for my catalogue and see my winnings and scores, and who scored them, and you will say I lead the procession in winnings. Elegant breeders in any number.

NEVER LOST ON BREEDING-PEN

in any score-card show, nor any pullet where they were weighed and weighed correctly. Only lost once on first cock. I won all prizes at Springfield, O., Aug. 21-24, 1900, all prizes offered. My strain won all prizes at Urbana, O., Aug. 14-17, 1900, this season making 30 times I have exhibited in 8 years. No breeder ever made such a record.

Ten Times I Won Every Money Prize Offered.

I have a grand lot of show birds for winter shows. They never fail to win for me, and they will win for my customers. Residence 363 South Fountain Ave. Farm one-half mile from city.

EGGS from Best Pens Only,
\$4 per 13; \$7 per 26; \$9 per 26.

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Always Win the Lion's Share Of Prizes.

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1902.—

Adopted by all the Leading Specialty Clubs. The official enameled bands are furnished by me at 4 cents or 45 cents per dozen with no initials numbered from one up. **Aluminum Bands** for pigeons and poultry, with year and number \$3 per 100, with year only \$1.50 per 100, with initials 25cts. per 100 letters. Send 2c. stamp for circular and sample band. Remittance must accompany order. **THOMAS WILLETT'S,** 202 Lawrence Street, Lowell, Mass.

ARE YOUR HENS LAYING?

If not, use **OYAMEAD, THE GREAT EGG PRODUCER.** Not a condition powder or egg food, but a specific that invigorates the egg producing organs and **MAKES HENS LAY.** Enough for 10 fowls one month, 50c., postpaid. Trial package, 25c., postpaid. **Oyamead Mfg. Co.,** Box 44, Rochester, N. Y., and all first-class poultry supply dealers. "Winter Egg Production" by Nellie Hawks, free, send for it.

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of prize winning poultry for 1902, printed in colors, illustrates and describes 50 varieties of poultry; gives reasonable prices of eggs and stock. Many hints to poultry raisers. Send 10c in silver or stamps for this noted book.

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CRUSHED OYSTER SHELLS.

50c. per hundred, ground fine, 30c.; Bone, Grit, Scraps, Charcoal, Bone Cutters, etc. Send for reduced price list.

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and for sale. If you want to sell or buy (no matter where located) send description and cash price and get (FREE) my successful plan. **W. M. OSTRANDER,** North American Bldg., Philadelphia, Pa.

Best to Exterminate Lice and Mites.

The endorsement of Poultry, Farm and Stock Journals and of best and largest breeders of swine and poultry everywhere, warrant you in choosing and using for your fowls and hogs that greatest of all insecticides—

LEE'S LICE KILLER

It is a liquid, applied to roosts for poultry; to bedding for hogs. It don't have to touch lice to kill them. There is no handling or disturbing fowls or animals. It works while they sleep. It contains more real insect destroying quality than any other liquid or powder in the world. Sold everywhere, but always in cans bearing our name and trade mark—never in bulk. Quarts 35c; 1/2 gal., 60c; gal., \$1. Testimonial circulars free. Address nearest place.

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Cure Guaranteed.

ConKey's Roup Cure is the only positively known remedy to cure Roup in all its forms as long as the fowl can see to drink. Simply put the cure in drinking-water, and the fowl takes its own medicine. **For Canker,** especially in pigeons, this cure excels all others. Our 50c. package makes 25 gallons of medicine. **Directions** with every package. If it fails to cure, we refund the money. Postpaid, small size, 50c.; large size, \$1.

ConKey's Louse Killer never fails to kill. Try it. 25c. per package. 15c. extra for postage.

ConKey's Egg Food and Poultry Tonic Helps to produce larger and healthier eggs, and will make your hens lay when everything else fails. It regulates the liver and bowels and keeps their blood in a healthy condition. Will produce an egg every day. 25c. per package, and 15c. extra for postage.

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Eastern Wholesale Office, 8 Park Place, New York City. Pacific Coast Agents, Petaluma Incubator Co., Petaluma, Cal. Do not send stamps.

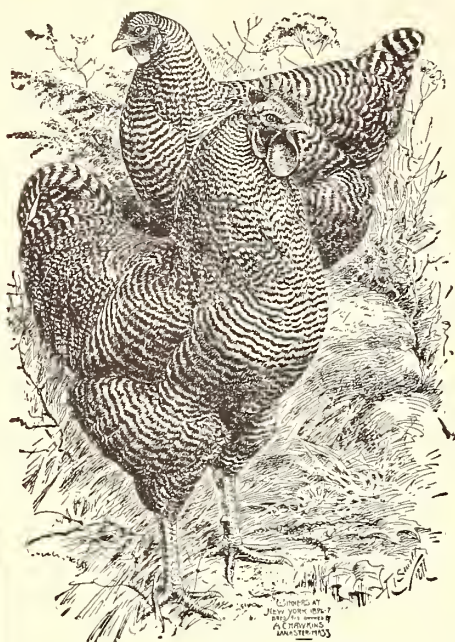
For Sale by all Poultry Supply Houses and Druggists.

POULTRY PRIZES

There are no Better

Of course you have heard of the famous Pine Tree Farm poultry and its prizes. Don't you want to introduce a little new blood into your flock? I have 23 varieties of land and water fowls and will **Guarantee Satisfaction** with everything that I sell and ship **Eggs by the sitting or the hundred.** Send for big free catalogue.

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The Pine Tree Farm.



Winners at New York, from Life.

HAWKINS'

ROYAL BLUE STRAIN PLYMOUTH ROCKS

BARRED, WHITE AND BUFF.

WYANDOTTES, SILVER WHITE
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MATINGS.
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Have won more prizes at New York, Boston, Washington, and America's greatest shows than all others. My matings this season are the best I ever owned. * * * * *

At the Great National Show, WASHINGTON, D.C., in hot competition with over 300 birds of these varieties, the best that could be found regardless of price, I won 45 Regular and Special Prizes on 39 Entries, including First Prize on Breeding-Pen in each variety, Special for Best Display in the American Class, Special for Best Exhibit of Plymouth Rocks, Sweepstakes Special for Best Cockerel in the show (Bantams excluded), and this on my First Prize Barred P. Rock Cockerel. My winning White Wyandotte cock was pronounced by the judges to be the best they had ever seen. I won twice as many first prizes as all other exhibitors of these varieties. My BUFF ROCKS, at Boston, 1899, in hot competition, won more first and special prizes than all others. My customers are winning all over the country. If you want the BEST, write me. Hundreds of Choice Exhibition and Breeding Birds at Honest Prices. Catalogue of America's finest Plymouth Rocks and Wyandottes free.

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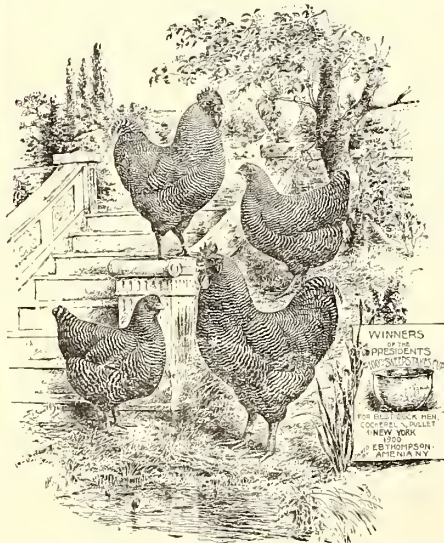
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VOL. VII. NO. 7.

SPRING NUMBER.

APR 11 1902 APRIL, 1902.

THE FEATHER



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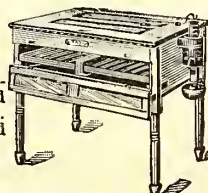
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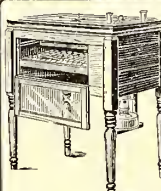
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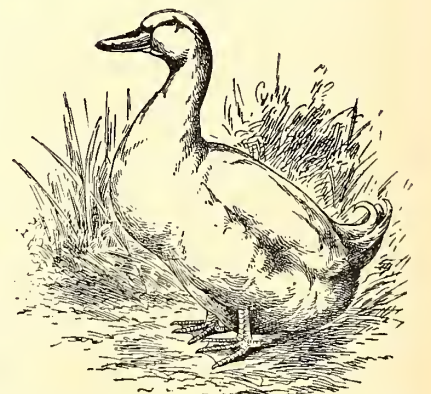


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FBW/C

ROCKS BUFF BARRED

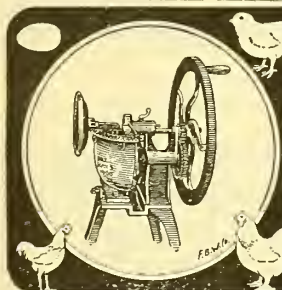
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THE CREAM FROM PRIZE-WINNERS.

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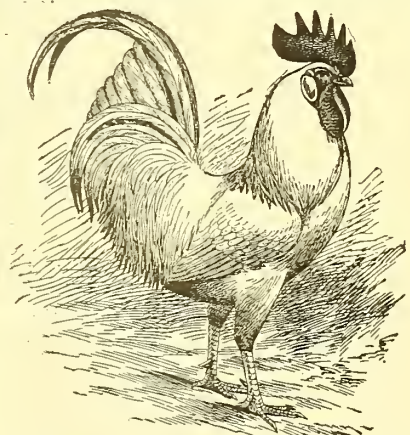
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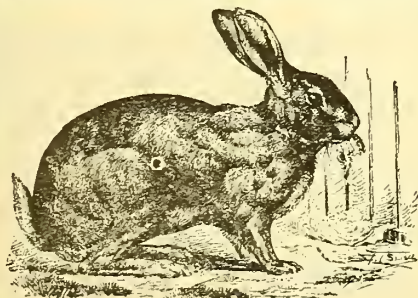
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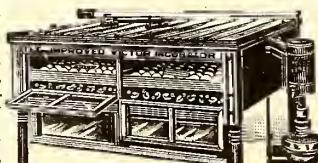
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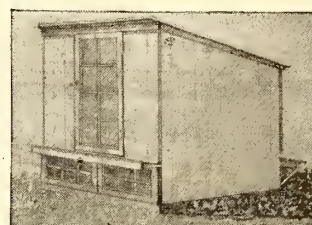
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EGGS, \$2 per 13.

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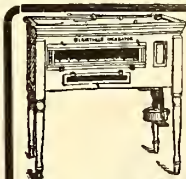
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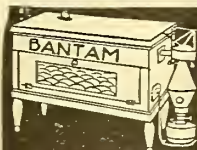
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WAS AWARDED TO

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\$100 CHALLENGE CUP FOR BEST MALE.

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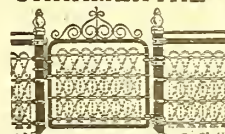
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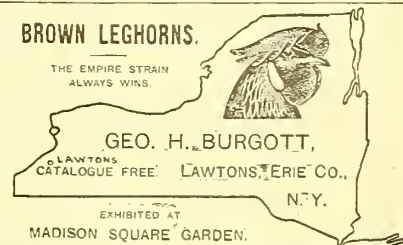


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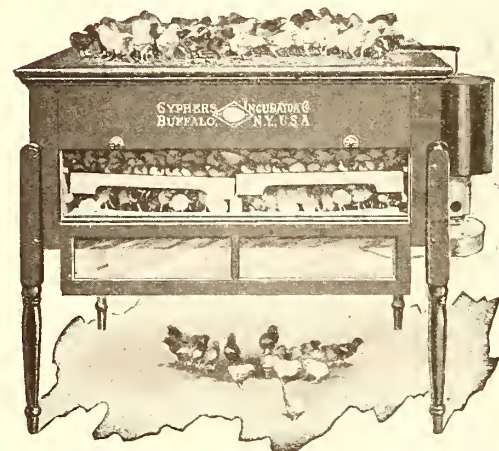
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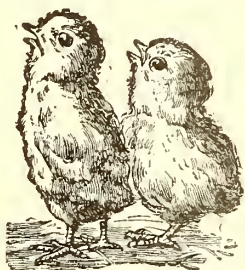
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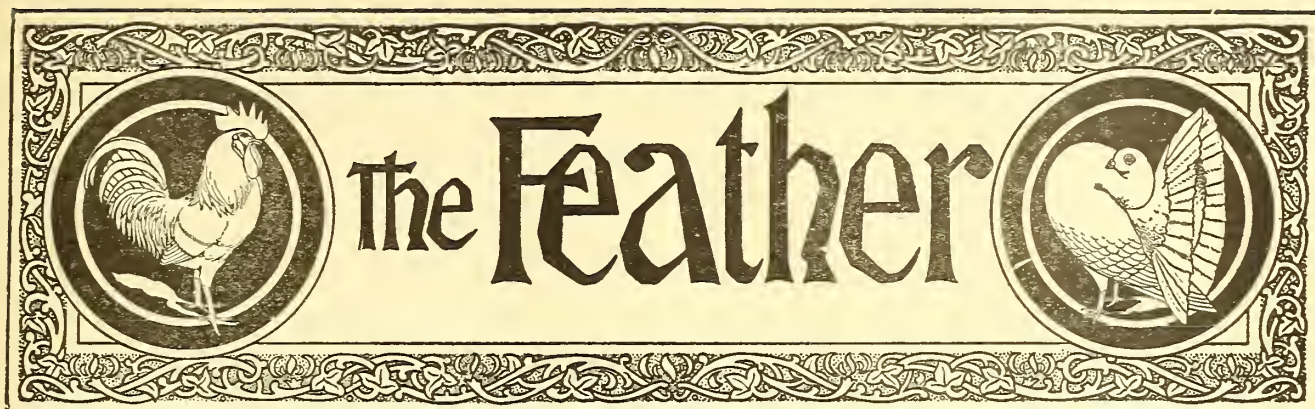
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WASHINGTON, D. C., APRIL, 1902.

FIVE CENTS.

THE SCIENCE AND PRACTICE OF POULTRY FEEDING.—XVI.

Rations for Laying Hens.

BY DR. D. E. SALMON.

A SECOND SERIES of experiments was made by the Hatch Experiment Station of Massachusetts beginning in the fall of 1898. Well-bred pullets were used of the White Wyandotte and Barred Plymouth Rock varieties which had been reared on the scattered colony plan. They were evenly divided into lots of twenty each, and each lot occupied a detached house, including laying and roosting-room ten by twelve feet and scratching-shed eight by twelve feet with the run of large yards of equal size whenever weather permitted. The winter tests began October 25, and ended April 27. The hens were all marked with leg-bands as a precautionary measure for the purpose of identification in the case of accidental mixture of the fowls.

All the meals and the cut clover were given in the form of a mash, fed early in the morning. At noon a little millet was scattered in the straw with which the scratching-sheds were littered. At night the balance of the whole grain was fed (also by scattering in the straw) one hour before dark. The fowls were given what whole grain they would eat up clean. Water, shells, and artificial grit were kept before the fowls at all times. About twice a week a small cabbage was given to each lot of fowls, this like all other food being weighed. The eggs from each lot were weighed weekly. The fowls were all weighed at intervals of about two months. Sitters were confined in a coop until broken up, being meanwhile fed like their mates.

The experiments were in one sense continuous, as the same fowls were used throughout; but it was deemed best to report the results obtained during the cooler months and those of the warmer months separately, one being denominated the winter experiment and the other the summer experiment. These experiments had for their object, testing the correctness of the generally accepted view that the laying fowl should receive feeds very rich in nitrogenous constituents (i. e., should have rations with a narrow nutritive ratio). During these tests corn was much more largely used than in the preceding year. Then it replaced about one-half of the oats and wheat usually fed at night; in the experiments now reported, the fowls on the wide ration received at night only corn. The fowls on both rations received cut clover and animal meal in equal proportions.

The health of the fowls on both rations was uniformly good through both the winter and summer experiments. As in the previous year, however, it was found to require the exercise of more care to avoid over-feeding and loss of appetite among the corn-fed hens.

The daily ration per fowl and its composition, so near as can be ascertained in the absence of analyses, for the winter period from October 25 to April 27 is shown by the following tables:

WHITE WYANDOTTES.

More Nitrogenous Ration.

Daily Average per Fowl for Period (184 days).

INGREDIENTS.	oz.	Dry Matter	DIGESTIBLE CONSTITUENTS.		
			Protein	Carbo-hydrates	Fat
Wheat.....	1.471	1.3165	.1486	.8664	.0147
Oats.....	.243	.2233	.0226	.1135	.0073
Millet.....	.252	.2167	.0224	.1134	.0081
Wheat Bran.....	.186	.1624	.0234	.0658	.0067
Wheat Middlings.....	.186	.1687	.0268	.0839	.0087
Gluten Feed.....	.186	.1689	.0353	.0932	.0054
Animal Meal.....	.186	.1765	.0651	.0000	.0208
Clover.....	.177	.1597	.0195	.0485	.0034
Cabbage.....	.673	.0707	.0108	.0236	.0009
Total	3.560	2.6634	.3745	1.4083	.0760

More Carbonaceous Ration.

Daily Average per Fowl for Period (184 days).

INGREDIENTS.	oz.	Dry Matter	DIGESTIBLE CONSTITUENTS.		
			Protein	Carbo-hydrates	Fat
Millet.....	.247	.2124	.0220	.1112	.0079
Wheat Bran.....	.186	.1624	.0234	.0658	.0067
Animal Meal.....	.186	.1765	.0651	.0000	.0208
Clover.....	.177	.1597	.0195	.0485	.0034
Corn Meal.....	.490	.4243	.0412	.3249	.0137
Corn.....	1.805	1.5866	.1209	1.1570	.0415
Cabbage.....	.643	.0675	.0103	.0225	.0008
Total	3.734	2.7894	.3024	1.7299	.0948

BARRED PLYMOUTH ROCKS.

More Nitrogenous Ration.

Daily Average per Fowl for Period (184 days).

INGREDIENTS.	oz.	Dry Matter	DIGESTIBLE CONSTITUENTS.		
			Protein	Carbo-hydrates	Fat
Wheat.....	1.502	1.3443	.1517	.8847	.0150
Oats.....	.271	.2490	.0252	.1266	.0081
Millet.....	.259	.2227	.0231	.1165	.0083
Wheat Bran.....	.186	.1624	.0234	.0658	.0067
Wheat Middlings.....	.186	.1687	.0268	.0839	.0087
Gluten Feed.....	.186	.1689	.0353	.0932	.0054
Animal Meal.....	.186	.1765	.0651	.0000	.0208
Clover.....	.170	.1533	.0187	.0466	.0032
Cabbage.....	.688	.0722	.0110	.0241	.0009
Total	3.634	2.7180	.3803	1.4414	.0771

More Carbonaceous Ration. Daily Average per Fowl for Period (184 days).					
INGREDIENTS.		DIGESTIBLE CONSTITUENTS.			
		Dry Matter	Protein	Carbohy- drates	Fat
		oz.	oz.	oz.	oz.
Millet.....	.252	.2167	.0224	.1134	.0081
Wheat Bran.....	.183	.1598	.0231	.0648	.0066
Animal Meal.....	.183	.1737	.0640	.0000	.0205
Clover.....	.174	.1569	.0191	.0477	.0033
Corn Meal.....	.483	.4183	.0406	.3202	.0135
Corn.....	1.897	1.6675	.1271	1.2160	.0436
Cabbage.....	.830	.0871	.0133	.0290	.0011
Total.....	4.002	2.8800	.3096	1.7911	.0967

The facts as to the live weight of the fowls in the different pens, and their product during the period of the experiment are shown in the next table :

Ration of Fowls.	Average Live Weight.			Average gain or loss for period.	Average No. of eggs per fowl.	Average weight of eggs per fowl.
	At beginning of period.	At end of period.	For whole period.			
	lbs.	lbs.	lbs.			oz.
WHITE WYANDOTTES.						
Nitrogenous.....	4.3	4.5	4.5	+0.2	31.58	60.26
Carbonaceous.....	4.3	4.3	4.6	0.0	43.57	79.31
PLYMOUTH ROCKS.						
Nitrogenous.....	4.9	4.9	5.1	0.0	20.64	41.48
Carbonaceous.....	4.9	4.9	5.2	0.0	39.09	81.69

The information concerning the rations of these fowls is summarized in the following table :

Ration of Fowls.	Total food per day per fowl.	Total water-free food per day per fowl.	Total food per day per 1 lb. live weight.	Total water-free food per day per 1 lb. live weight.	Nutritive ratio.
	oz.	oz.	oz.	oz.	
WHITE WYANDOTTES.					
Nitrogenous.....	3.560	2.6634	.791	.592	1:4.23
Carbonaceous.....	3.734	2.7894	.812	.606	1:6.44
PLYMOUTH ROCKS.					
Nitrogenous.....	3.634	2.7180	.713	.533	1:4.26
Carbonaceous.....	4.002	2.8800	.770	.554	1:6.50

The product obtained from this ration over and above the maintenance of the fowls is shown as follows :

Average Product per Fowl per Day.				
		oz.	Protein oz.	Fat oz.
WHITE WYANDOTTES				
Fowls fed nitrogenous ration				
Eggs.....		.3277	.0431	.0305
Gain in body-weight.....		.0174	.0035	.0070
Total product.....			.0466	.0375
Fowls fed carbonaceous ration				
Eggs.....		.4310	.0566	.0402
Gain or loss in body-weight.....		.0000	.0000	.0000
Total product.....			.0566	.0402
PLYMOUTH ROCKS				
Fowls fed nitrogenous ration				
Eggs.....		.2254	.0296	.0210
Gain or loss in body-weight.....		.0000	.0000	.0000
Total product.....			.0296	.0210
Fowls fed carbonaceous ration				
Eggs.....		.4440	.0583	.0414
Gain or loss in body-weight.....		.0000	.0000	.0000
Total product.....			.0583	.0414

In order to show the portion of the food used for the maintenance of the fowls, the next table is compiled in which the constituents of the product are subtracted from the total digestible constituents of the food. It is worthy of careful study.

Nutritive Constituents of the Food, of the Product and of the Maintenance Ration. Average per fowl per day.			
	Protein oz.	Carbohy- drates oz.	Fat oz.
WHITE WYANDOTTES			
Fowls fed nitrogenous ration			
In ration.....	.3745	1.4083	.0760
In product.....	.0466		.0375
Used for maintenance.	.3279	1.4083	.0385
Fowls fed carbonaceous ration			
In ration.....	.3024	1.7299	.0948
In product.....	.0566		.0402
Used for maintenance.	.2458	1.7299	.0546
PLYMOUTH ROCKS			
Fowls fed nitrogenous ration			
In ration.....	.3803	1.4414	.0771
In product.....	.0296		.0210
Used for maintenance.	.3507	1.4414	.0561
Fowls fed carbonaceous ration			
In ration.....	.3096	1.7911	.0967
In product.....	.0583		.0414
Used for maintenance.	.2513	1.7911	.0553

Finally, it is desirable to ascertain the fuel value of the maintenance ration. The details as to the manner of computing this have been given in previous papers. The following table shows the results :

Fuel Value of Maintenance Ration.		
	Average per day per fowl. Calories.	Average per 1-lb. live wgt. Calories.
WHITE WYANDOTTES		
Fowls fed nitrogenous ration.....	211.98	47.11
Fowls fed carbonaceous ration.....	244.07	53.06
PLYMOUTH ROCKS		
Fowls fed nitrogenous ration.....	223.13	43.75
Fowls fed carbonaceous ration.....	252.02	48.47

In these experiments the ratio of the carbonaceous ration was wider ; that is, the ration contained less nitrogen than did the rations of the previous year. Notwithstanding this fact the Wyandottes on the more carbonaceous ration yielded 38 per cent more eggs than those on the more nitrogenous ration ; while the Plymouth Rocks on the more carbonaceous ration yielded 89 per cent more than those on the more nitrogenous ration. When it is considered that the more carbonaceous ration is much less expensive than the other, the great advantage of feeding it is very apparent.

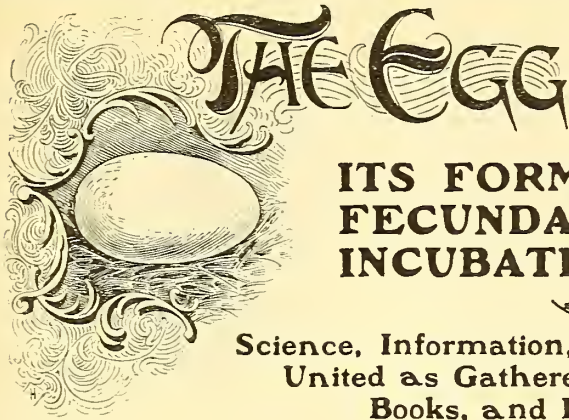
Poultry and Plums.

“One can not live on a fruit-farm and allow the chickens full range during the summer, for they are very destructive to grapes and the smaller fruits,” writes M. E. Chandler, in *New York Farmer*. “As one of our plum-orchards extended quite close to the chicken-house, we decided to fence off one part of the orchard with six-foot wire netting, with the following result :

“Plums have been almost a total failure with us for the past three years except within the part fenced off. Some trees within the chicken-yard bore as high as five crates last year, while all bore a good crop. The row just outside of the fence bore perhaps one-half of a good crop, while the next row and the remainder of the orchard bore from a few boxes to nothing at all.

“Trees within the yard this season are looking much brighter and made a far better growth than the remainder of the orchard, and the fruit is set much heavier. Now as to the reason, I can only say that chickens are great cultivators, scratching and enriching the soil. All the summer through the ground is kept moist and free from weeds.

“Some say the chickens eat the bugs and cause a great crop of fruit. There is nothing in that at all. It is very true a chicken will eat the curculio, but that does not cause the tree to set fruit. In conclusion I would say fence off your plum-orchard for a chicken-yard, and the heavy crops will more than pay the price of fencing.”



ITS FORMATION. FECUNDATION, AND INCUBATION.

Science, Information, and Speculation
United as Gathered from Persons,
Books, and Experience.

BY T. F. MCGREW.

As the rearing of poultry becomes more and more a business throughout the land, the people are more anxious to know why the per cent of living chicks is so small in proportion to the number of eggs that are put to incubation. The fact that the general average of living chicks obtained the country over will not exceed twenty-five per cent of all the eggs that are put under hens and into incubators, has so aroused the whole people affected by these results that it has caused the poultry journals to be filled with lengthy and numerous articles upon the subject, "How to Obtain Fertile Eggs."

About two years ago the writer made public, in print, the fact that, in his opinion, we must look beyond the limit of manner of food and care to be bestowed upon the fowls to discover reasons for infertile eggs; we may even go beyond the head of the harem for the true cause of what seems to be a public calamity. We may suggest plans of food and exercise; we may change the males in our matings; we may even add to or reduce the number of females in the breeding-pens, all of which must bring more or less benefit. But even these can not bring changes sufficient to overcome the actually existing condition of Nature.

That we may have this matter under advisement, from its very foundation, let us consider the egg from its beginning to the end of incubation or its decay, as the case may be if fecundated, taking up the subject at the point,

HOW THE EGG IS FORMED.

"Every animal, of whatsoever kind, is developed from the egg-form, or as physiologists express it, '*omne animal ex ovo*.'" But the mode of that development differs, in one detail especially. In mammalia the egg is retained throughout within the body of the mother, which is its sufficient protection, and the development is uninterrupted. In oviparous animals, such as birds, the egg is enclosed in a hard protecting shell, and at a certain stage of development extruded from the body of the mother; in this case development is arrested at that point, and may, or may not, be resumed and completed.

The ovary of a hen during or near her laying season presents an appearance much like that of a cluster of fruit, and is accurately shown by the illustration (Fig. 1). There are, strictly, two such organs in every bird; but one remains merely rudimentary and undeveloped, the fertile one being almost always that

on the left of the spine, to which it is attached by means of the peritoneal membrane. By the ovary the essential part of the egg, which consists of the germ, and also the yolk, is formed, each yolk being contained within a thin and transparent ovisac, connected by a narrow stem or pedicle with the ovary. These rudimentary eggs are of different sizes, according to the different degrees of development and during the period of laying they are constantly coming to maturity in due succession.

As the yolk becomes fully matured the enclosing membrane or *ovisac* becomes gradually thinner, especially around its greatest diameter or equator, which then exhibits a pale zone or belt called the *stigma*. Finally,

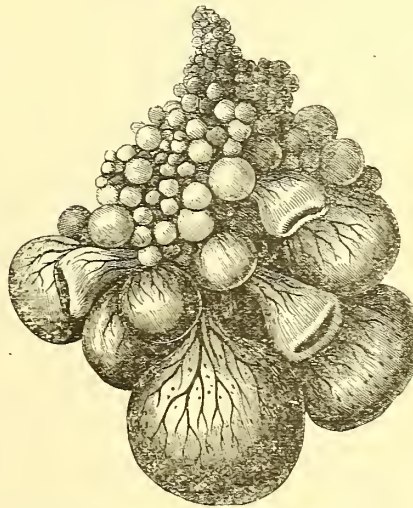


FIG. 1. OVARY OF LAYING HEN.

whether or not fecundation takes place, the sac ruptures at the stigma, and the liberated yolk-germ surrounded by a very thin and delicate membrane is received by the funnel-shaped opening of the *oviduct* or egg-passage, whose office it is to convey it to the outer world, and on its way to clothe it with the other structures needful for its development and preservation. This organ, with its various convolutions a little modified for convenience of representation, is shown in Fig. 2, and in an ordinary hen is nearly two feet in length. It will easily be seen how two yolks may become detached and enter the oviduct at nearly the same time; in which case they are likely to be enveloped in the same white and shell, causing the "double-

yolked egg" so well known to every poultry keeper.

Here we have the actual facts of where and when the contact of possible life must take place, presented to us. This must be either while the yolk is within the membrane of the ovary, or while it passes from the casing or ovisac that held it, into the opening of the oviduct, through which it must pass during completion and its trip to the outer world.

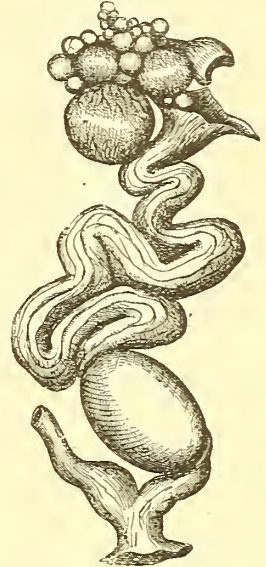


FIG. 2. OVARY AND OVIDUCT.

This is possible of completion in four hours or it may consume a day. But it seems to be a settled problem that at soon as the process of finishing the egg begins within the passage or oviduct, that all chance of fertilization is removed by the coating of albumen that is so quickly formed about the yolk.

As the yolk passes along it is encased within the albumen or white of the egg. Following this comes the skin of the egg, as it is called. This is the double lining of the shell, called the outer and inner shell membrane. These two layers separate at the larger end of the egg and form the air-chamber of the egg. It is generally understood that if a pin-hole or puncture of any kind is made into the air-chamber or into the egg at any point, that all chance of its hatching is forever removed (more as to this later). Be this as it may, we shall only consider at this time the formation that continues to and including the shell.

As the egg continues its passage through the oviduct it is continually turning and forming the float for the yolk; that is called the *chalazae*. This is a heavier albuminous formation than the balance of the white of the egg, and acts as a float or a raft to support and hold up into the proper position the yolk, so that the *blastoderm* or germ-skin may be always in an upright position. This is the laminated portion of the ovum from which the organs of the embryo are formed; the germinal membrane marked BL, in the following cut.

This illustration shows plainly that the *chalazae* holds at all times the yolk in a position that keeps the germ-cell always in an upright position; no matter how much you move the egg about, this germ-cell is always on top and floating near the surface of the albumen, and the possibility of its getting in contact with the shell-membrane, or skin

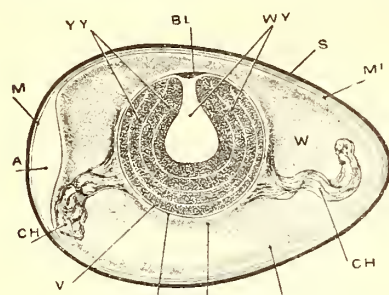
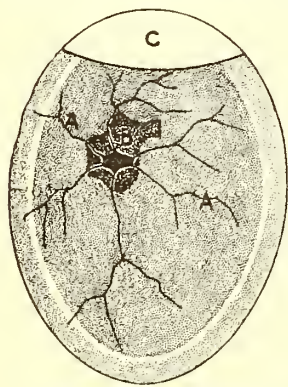


FIG. 3. DIAGRAM OF AN EGG.

BL, Blastoderm. WY, White yolk. YY, Yellow yolk. V, Vitelline membrane. F, Layer of very fluid albumen round the vitelline membrane. D, Dense albumen enclosing the yolk with preceding envelopes. In this envelope D are incorporated the ends of CH, the chalazae. W, body of the albumen. C, somewhat denser layer of albumen, surrounded by a fluid layer. M M', outer and inner shell membrane, separated at A, air-chamber. S, shell.

of the egg, makes it imperative that the egg should often be moved about, just a little at least. It seems scarcely necessary to turn it upside down or completely over as is often the habit. If moved just enough to shift its position all that is needed has been gained, and unnecessary motion during the early stages of incubation is avoided.

Again nature casts its protection about this portion of the egg by having the yolk just a slight bit lighter than the major portion of the white; so that it will just float to its surface where it is kept from the shell-membrane by the more dense or thick coating of the albumen that lays next to the shell (marked C in the illustration). This acts as an elastic bumper, and when the egg is moved, the yolk is gently rebounded as it comes in contact with this, and guided away from contact with the lining of the shell. Then again, this heavier formation of albumen acts as a non-conductor of cold and keeps the embryo from its influence during the hen's absence from the nest, or while the eggs are out of the incubator. The necessity of moving the eggs about during incubation is on account of the evaporation of the albumen through the pores of the shell. If allowed to rest on one side or in one position too long the albumen between the embryo and shell becomes dry and they become fastened together, destroying the life. Turning now to the yolk:

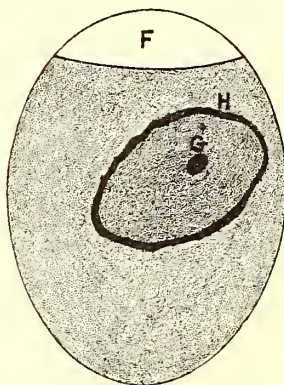


A STRONG FERTILE EGG.

"This is contained within a very delicate vitelline membrane, V. It is composed of both white and yellow cells, and if an egg be boiled hard and cut across, it can be seen that there is a flask-shaped nucleus or center of white yolk, WY, around which are several concentric layers of yellow yolk, YY. Under

the microscope additional thin layers of white yolk-cells can be distinguished amongst the yellow layers. On the top of the white yolk rests the blastoderm (germ-skin), a small disk about one-eighth of an inch across, shown at BL. The difference between a fertilized and an unfertilized egg is solely to be found in this small disk, and much of its detail can only be distinguished under the microscope; but with a pocket-lens it can be discerned that whilst in an unfertilized egg the little disk is whitish all over, except for small clear spots very irregularly distributed over its surface, in the fertilized egg an outer ring or margin is whitish while in the center is a smaller clear circle, in which are very small white spots. This central clear space is the germ from which the chick will be developed.

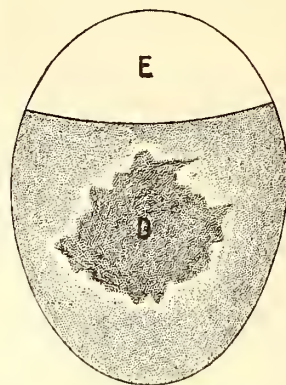
"It should be clearly understood that, at the stage when thus examined, after the egg has been laid, development or 'hatching' has already been carried on to a certain extent, due to the eighteen or twenty hours it has been subjected to the heat of the hen's body whilst traversing the oviduct. As it entered the



A WEAK OR IMPERFECTLY FERTILIZED EGG.

oviduct, the germinal disk consisted of only a single cell. During its passage this cell becomes traversed by successive furrows or divisions, dividing and subdividing it into many cells—the first stage in developing a real organism out of the single cell. This process goes on not only on the surface, but beneath, so that by the time the egg is laid, the blastoderm consists of two sheets or layers of cells. At about this stage the egg should be laid, and with the cessation of warmth the process ceases, or nearly so, but not exactly at the same point in every case. Perhaps the most wonderful thing about an egg is the power it has of keeping the development, already commenced, suspended for a time when warmth is withdrawn; to be resumed and carried on whenever the necessary warmth is restored.

"Several points which puzzle many people will now be understood. It may happen that an egg is retained for a day or two beyond the natural time; in that case the development or hatching will be continued, and the new-laid egg may contain a visible embryo. Again since even the new-laid egg is already an organism which has attained a certain stage of growth, it is subject to disease, or weakness, or accident, like other organisms. Thus an egg may be fertile, and the germ may begin to develop, but may perish at any stage from sheer lack of strength. Quite apart from accidents or injuries whilst hatching, there is no doubt that in many



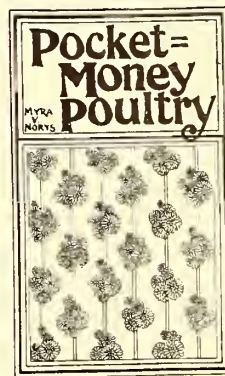
A STALE EGG.

eggs the embryo is not strong enough in itself ever to come to maturity. Such deaths at various stages, within the shell, are in no essential respect different from deaths of weakly chickens at various stages after leaving the shell; the necessary vigor may fail the infant creature at any particular time. So also the embryo can be injured within the shell in various ways; and while it might be fanciful to say it can be frightened, there is much evidence to show that it may suffer from some kind of nervous shock."

THE POWER OF FERTILIZATION.

The possibility of reproduction rests with the presence of the male with the flock of hens. From his presence with them the life-giving germs are transmitted to the germ-cell of the yolk. As mentioned before, those germs must gain that position prior to the entering of the yolk into the oviduct, where the covering of albumen begins to form

Pocket-Money Poultry. ✎



The fourth book of THE FEATHER'S series is Myra V. Norry's latest production, "Pocket-Money Poultry." This book was written primarily for women who wish to supply themselves with pocket-money by keeping a few fowls. It begins at the beginning of the subject, goes into the details, points out the essentials, and makes the course of the successful poultry-raiser so plain that any intelligent person can follow it without difficulty.

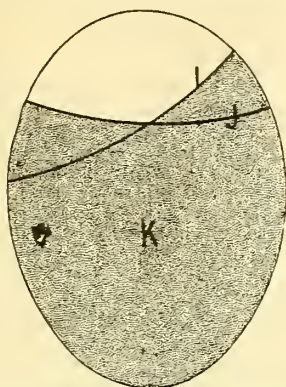
The experienced poultryman will, also, read this book

with both pleasure and profit. There are none so old and experienced but that they have still much to learn. Perfection in this as in other occupations is hard to attain, and those who are doing the best still find room for improvement.

"Pocket-Money Poultry" has the following interesting chapters: Women—Fowls—Money, How Much Capital? Choosing a Line of Work, The Breed that Wins, Artificial and Natural Incubation, Satisfactory Coops and Brooders, Mothering Chicks, The First Season's Work, The First Season With Fancy Poultry, Confinement or Freedom, The First Poultry-House, Feeding for Eggs, The Embryo Chick at Testing Time, Ducks and Geese, Turkeys for Pocket-Money, Squabs for Pocket-Money, Pocket-Money Possibilities, Pocket-Money Pointers, Supplementary Food Supplies, The Possible Value of Caponizing. Price, 50 Cents.

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THE AIR-SPACE ON THE 16TH DAY.

about them at the very entrance. Whether this germ finds its way into this cell prior to its leaving the ovisac, or during its passing from the ovary to the oviduct we can not determine; but surely it seems quite plain that the fertilization must be made at or during this period, prior to the finishing process that goes on during its passage through the oviduct.

Experience has taught us that during the warm days of spring and summer the fertility of the eggs is better than during the colder days of winter, and the continual aim has been to find out why this should be, and to obviate the

growing farm, a number stood ready to pay him one thousand dollars for his information; but so far as we have been able to learn he was never able to gain any noticeable increase from his method, if he had one; when we stop to consider what it means to only gain three or four hundred or less chicks or ducklings from one thousand eggs placed in incubators, the problem is a matter of much more importance than it appears to those who only set a hen or two.

Every man, woman, or child who sets a hen has racked their brains to find some plausible reason for the poor results gained from early hatches of eggs placed under hens. The results are usually the same whether the eggs are produced at home within our own hen-houses or whether they come from others. This is a question beyond the solving powers of either the sitting hen or the incubator, for neither seems to have the advantage over the other; both fail to bring forth any more chicks than the natural percentage that should come from the fertile eggs they have to deal with; neither can nor will do more; so the only way to improve this is to find the cause of infertility and remedy it if possible.

THE WARNING OF SCIENCE.

The scientific research of years has proven that the generative organs of both fowls and birds dwindle, at times,

tions as would maintain these organs in their normal state; so that the same power might be present that comes with the warmer days of spring. These facts would incline one to the belief that nature must be outwitted by summer conditions in our winter climate before any noticeable relief can come.

If it were possible to have a winter home for fowls where the sleeping- as well as the day-quarters might be continually warm, like spring, the question might be solved. If we only knew beyond peradventure whether heated quarters would remedy the evil or rather the natural misfortune we would have some tangible theory, at least, to work upon, and even with this information we must experiment, so as to know the influence of such conditions upon both the fowls and chicks that may be thus handled and produced.

If warm quarters for the egg-producing stock will bring the percentage of fertility up to that which is usual for spring or summer months, the expense would not be prohibitive, providing the chicks thus produced would grow into as good broilers, or roasters, or exhibition fowls as those produced under natural conditions. The main condition for our consideration under this plan, if successful, would be its after influence upon the fowls thus kept, as well as its influence upon the future usefulness of the chicks thus produced. Would they be as hardy and strong for future use as those reared under natural conditions? If not, then all so reared should go to the spit.

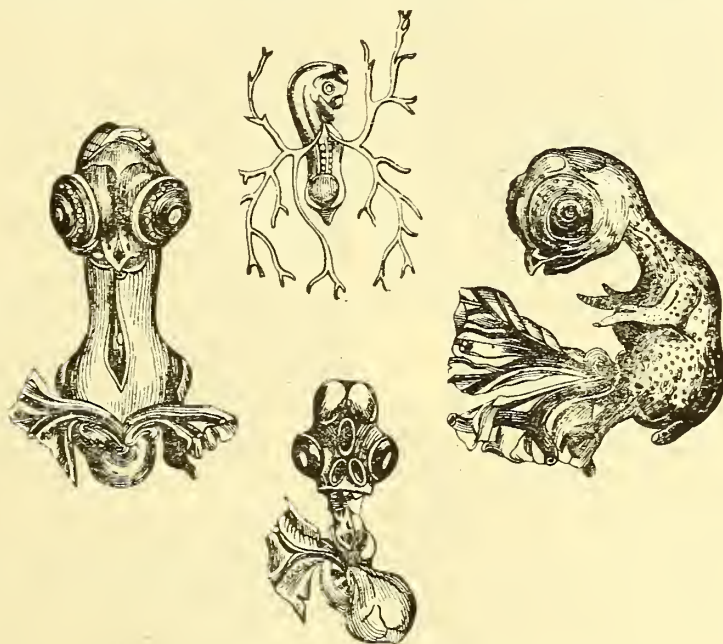
Gleaning over what advantage there might be from this, we must first be satisfied that this line of reasoning has something of truth in it. If this seems plausible it might be well for all who have made any experiments with heated houses to go farther with this, as well as to give their experience through the press so that those who would take it up another year might profit by the experience and begin where the trial has been brought to, thus saving much time and trouble, and at the same time benefiting the interest of the poultry industry.

TROUBLES IN INCUBATION.

Unfortunately the consuming desire for early broods leads us to become disappointed if we only gain a few chicks from a nest of eggs that have been entrusted to the care of a hen; but when after three weeks of care and attention one hundred eggs or more only turn out twenty chicks in the incubator, which has occupied our minds and attention, we feel that everything other than the real cause should be blamed for that which seems to us to be almost a calamity. Having dealt with the problem of infertility, we shall only consider the process of incubating the fertile egg and its possibilities for destruction at almost any hour of the five hundred consumed in the process.

First of all will be described the changes which take place from hour to hour as the process of incubation goes on, the best description of which is found in "The Poulterer's Companion," which is herewith quoted; viz.:

"The following account of the wonderful changes which an egg undergoes in hatching, from its first day till its final exclusion, is particularly interesting, and is taken from an English journal. By means of the Eccaleobion and hatching-ovens, many interesting facts have been discovered, and are described with great minuteness.



THE EVOLUTION OF THE CHICK IN THE EGG.

Six Days.

Thirty-six Hours.
Four Days.

Ten Days.

trouble. It has been fairly well established that the use of two males, day about with a small flock of hens will improve the per cent of fertility above the presence of but one all the time. The use of cockerels rather than cockbirds has also gained some advantage; but with all this, seldom can the per cent of fertility be brought above about twenty-five to thirty per cent.

To find a reason for this and to obviate it has bothered those who try to profit from the production of early-hatched chicks for broilers, or for exhibition or other purposes. When Mr. Payne announced that he could increase the fertility at least forty per cent at any duck-

to one-tenth their normal size during the winter months. Birds live in flocks during the cold days of winter; even the quarrelsome sparrows live in contentment during the winter months in such large flocks as to be crowded. The crow and the blackbird go in throngs. All of this shows the influence of declining vigor in that direction which guides them to select a special mate with the return of spring.

The dwindling of these organs must of necessity reduce the power of secreting the very germs that are so necessary for the fertilization of the egg. If this be true, the only way to remedy the evil would be to establish such condi-

"The hen has scarcely sat on her eggs twelve hours before some lineaments of the head and body of the chicken appear. The heart may be seen to beat at the end of the second day; it has at that time somewhat the form of a horseshoe, but no blood yet appears. At the end of two days, two vesicles of blood are to be distinguished, the pulsation of which is very visible; one of these is the left ventricle, and the other the root of the great artery. At the fiftieth hour, one auricle of the heart appears, resembling a noose folded down upon itself. The beating of the heart is first observed in the auricle, and afterward in the ventricle. At the end of seventy hours, the wings are distinguishable; and on the head two bubbles are seen for the brain, one for the bill, and two for the fore and hind part of the head. Toward the end of the fourth day, the two auricles already visible draw nearer to the heart than before. The liver appears toward the fifth day. At the end of a hundred and thirty-one hours, the first voluntary motion is observed. At the end of seven hours more, the lungs and the stomach become visible; and four hours afterward, the intestines, the loins, and the upper jaw. At the hundred and forty-fourth hour, two ventricles are visible, and two drops of blood instead of the single one which was seen before. The seventh day, the brain begins to have some consistency. At the hundred and nineteenth hour of incubation, the bill opens, and the flesh appears in the breast. In four hours more the breastbone is seen. In six hours after this, the ribs appear, forming from the back, and the bill is very visible, as well as the gall-bladder. The bill becomes green at the end of two hundred and thirty-six hours; and if the chicken be taken out of its covering, it evidently moves itself. The feathers begin to shoot out toward the two hundred and fortieth hour, and the skull becomes gristly. At the two hundred and sixty-fourth hour, the eyes appear. At the two hundred and eighty-eighth, the ribs are perfect. At the three hundred and thirty-first, the spleen draws near the stomach, and the lungs to the chest. At the end of three hundred and fifty-five hours, the bill frequently opens and shuts; and at the end of the eighteenth day, the first cry of the chicken is heard. It afterward gets more strength and grows continually, till at length it is enabled to set itself free from its confinement.

"In the whole of this process we must remark that every part appears at its proper time; if, for example, the liver is formed on the fifth day, it is founded on the preceding situation of the chicken, and on the changes that were to follow. No part of the body could possibly appear either sooner or later without the whole embryo suffering; and each of the limbs becomes visible at the first moment. This ordination, so wise and so invariable, is manifestly the work of a Supreme Being; but we must still more sensibly acknowledge His creative powers, when we consider the manner in which the chicken is formed out of the parts which compose the egg. How astonishing it must appear to an observing mind, that in this substance there should at all be the vital principle of an animated being; that all the parts of an animal's body should be concealed in it, and require nothing but heat to unfold and quicken them; that the whole formation of the

chicken should be so constant and regular that, exactly at the same time, the same changes will take place in the generality of eggs; that the chicken, the moment it is hatched, is heavier than the egg was before! But even these are not all the wonders in the formation of the bird from the egg—for this instance will serve to illustrate the whole of the feathered tribe—there are others altogether hidden from our observations, and of which, from our very limited faculties, we must ever remain ignorant."

This very rapid growth from the egg to the chick must be nurtured under the most natural conditions, or the process may be disturbed and the embryo cease to exist, there remaining nothing then but the spoiled and rotten egg; or the chick may be almost ready to break from the shell and by encountering some unnatural condition which it can not withstand dies in the shell; it may be from either too much or too little heat; too much or too little moisture. The too much heat may burst the artery as it grows and too little heat may stop the growth so long that it can not be resumed, thus life is gone. These conditions may cause death in the embryo at any hour or day in a growing state within the shell. As we stop to consider all these delicate changes that go on so rapidly during the three weeks of incubation, is it to be wondered at that some of the eggs placed in the care of the very best incubators fail to produce a living chick? Why? is about the most ready ejaculation of our language; so easy of presentation, so difficult to satisfy; at the same time most reasonable to the inquiring mind. If this same inquiring spirit would urge us to try to add to the inquiry the conditions under which the failure came about, more progress could be made towards its solution. But so long as we must work in the dark, as it were, with a box full of heated air, the whys and wherefores can not be satisfied until the causes are presented.

HANDLING THE INCUBATOR.

There are persons who are so fussy about their hens that they cause them to grow so nervous as to unfit them for carrying out their purposes. An incubator in the care of such people will never do good work. Good judgment and common sense are the prime factors required for success with an incubator. The incubator in the hands of an expert will at all times yield good results; consequently the following remarks are addressed particularly to those who could not be called experts in this line, as well as to the vast army of amateurs who for the first time begin the use of an incubator; to all such, a few words may, if heeded, prove of great benefit; these will be simple and easily understood.

In the first place, let the *directions* sent out with the machine be thoroughly understood, by studying them hard and well, and next, follow them to the letter when proceeding to use the machine, feeling absolutely certain that the manufacturer knows perfectly well just how the incubator which he has produced should be handled, and that his directions may be relied upon. If the user fails to follow absolutely the rules laid down for the running of the machine and the result is unsuccessful, the fault is not that of the machine. Be sure you are right, then go ahead is a

good rule to follow in the use of the incubator and the brooder.

It is just as well to try the first hatch early in the season, with only a few eggs, so as to thoroughly adjust the machine and test its working in your hands. Often much sorrow is saved in this way. The best bicycle rider known fell off the wheel in his first attempt, and so also has the most expert breeder of to-day failed in his first hatch. To do the best in any line calls for a reasonable amount of experience. If the manufacturer of the machine tells us to put water in the moisture-pans, it should be put in, and put in at the time which he indicates; and if he forbids moisture, no moisture should be permitted in the machine. Let the directions always be followed strictly, allowing no one's suggestions to interfere.

If the heat in the machine is allowed to become too high, so sure will all the chicks be killed in the shell, and none should be deceived with the idea that this was the case for only a moment and will be harmless, for this high degree of heat comes on gradually and with it comes the injury, consequently when the heat reaches 110 degrees the chicks have a very slight chance for their lives. The hen may let the eggs get slightly chilled, but never too hot, and the eggs will stand a reasonable lowering of temperature with but little damage, but overheating boils the blood in the veins of the chick within, causing death.

As to turning and shifting the eggs, the rule is to turn them clear over in the trays, as described in the beginning of this article. The necessity for turning is to prevent the germ-cell getting fastened to the inner membrane of the egg. When this is prevented all that is needed is accomplished. At the same time, it is well in this as with other things to follow the rule given by the maker of the machine.

The purpose of this article is to give all a chance to cope with the whole subject; all that is set forth should have thoughtful attention. It may be disproved if possible, or better still, if there is a chance for guidance to even a partial solution of the subject, let that chance be grasped and the work proceeded with; thereby will the whole poultry interest of the world be benefited.

Information has been given out that it is possible to open an egg in process of incubation at the air-cell end, if only the outer membrane is cut, and still have the chick maintain life and come out of the shell in due course. A cracked shell covered with plaster or mucilage while in incubation, has been known to produce a living chick; but as to the air-cell being opened as above, and with the stated result, can not be here affirmed, being only related on information and not from being witnessed by the writer. A test would prove the truth to any one interested enough to try the experiment.

The Kentucky Poultry Association.

The annual exhibition of the Kentucky State Poultry Association will be held at Louisville, Ky., Jan. 22-28, 1903. The judges will be D. T. Heimlich and Thomas F. Rigg. In addition to poultry they will exhibit pigeons and all kinds of pet-stock. The secretary is John H. Good, Louisville, Ky.

PURE-BRED POULTRY.

The True Value of Quality Considered.

How to Produce and Condition Show Fowls.

By T. F. MCGREW.

The foundation or life of the pure-bred poultry business is the American Poultry Association. Since 1873 the influence of this association has advanced us, as individual breeders, to a higher understanding of quality. This influence has cast its strength against the inferior, and in favor of better poultry. Its methods are extended throughout the whole poultry world, at least so far as America is concerned, through its Standard, first compiled by Mr. A. M. Halstead, of Rye, N. Y., largely from compilations used by the clubs in England, and afterwards made use of by the founders of our association.

Many are under the impression that the modern Standard emanates entirely from the present-day poultrymen; but this is not a fact. In its present form there is but little change from the original compilation. Such changes as have been made became necessary in order to conform with improvements in the fowls, and to properly describe new breeds and varieties as they came into fellowship of other standard breeds.

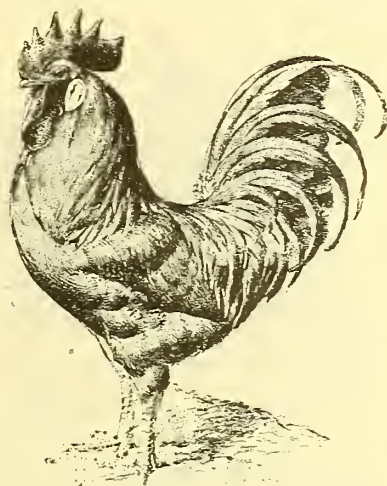
Within the United States alone there are more than one hundred thousand people interested in standard-bred poultry. This intelligent army of people bow in submission to the mandates of the Standard. In the laity of the people is vested the strength of this organization, which may be truly termed an aristocratic one, austere in its dictation and concentrated in its power. All that emanates from it comes, in the greater part, from less than one hundred active fanciers. Seldom have any of the meetings of the association been attended by more than fifty members, the greater part of these being persons present at the shows where the meetings are held. The outcome of allegiance to the will of the Standard has resulted in almost unlimited numbers of valuable breeds and sub-varieties which are bred to perfection of form and color exceeding the wildest expectations of the founders of this guide. In this is the living proof that in union there is strength. The real value of poultry, beyond the price they bring in the market, is their quality. By this alone are they gauged in value by the fancier. Another feature that influences value is condition, which combined with quality commands the highest valuation.

QUALITY AND CONDITION.

The highest quality obtainable each year is our rule and guide to perfection; this has its influence in selection and grading; only the very best specimens which each of us has seen being the guide in selection; and those who have not seen the best are not fitted to pass judgment on what might be considered as approaching perfection. Within a few weeks the writer has seen this illustrated. There was brought to Hagers-town a pullet of such excellent quality

that all who saw her agreed that she was the best of her kind yet seen; a week later she was quite easily beaten by another so much better that there was no hesitation on the part of any to proclaim the newcomer's value. In this was an exhibition of the power of comparison, without which no one can truly gauge quality.

To produce the most desirable quality for exhibition, faultless hens that can be mated to males of highest quality must be at hand. It should be well impressed upon the mind of every aspirant for show-room honors that the pro-



BUFF LEGHORN COCK.

duction of high-quality show specimens will come, with any certainty, from superior quality in the hens. It should ever be remembered that size as well as other qualities comes largely from the female, the male having the greater influence in color, finish, feather, and head-points. Small bantams come from small bantam hens; large Brahmas come from large Brahma hens; herein is the secret of much success.

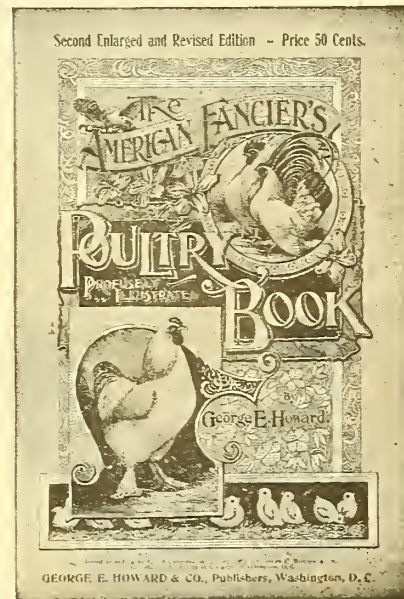
A fowl's condition is the barometer which indicates its health, and without the best of health, a fowl can not have the highest condition, and to attempt to condition for the show-pen a fowl in poor health is labor lost. If it be possible to turn fowls into underbrush when they begin to molt, where they can have the fullest supply of natural food in addition to their grain supply, they would gain the best of health, and with it the highest condition; then all that would be needed to complete them for the show-pen would be to tame them for the coops. Next in order to this good health and high condition is cleanliness. Exhibition fowls should be washed a number of times, if necessary to their perfect appearance. This adds fully as much to the appearance of a

black fowl as to a white one. This perfect cleanliness should extend to the shanks, feet, and toe-nails, including the scales. The careful use of a soft pine stick or wooden tooth-pick about the scales of the shanks will remove much of the dull appearance often seen. Equal care and attention should be given to cleansing the face, head, and belongings, using clean, clear water in preference to alcohol or oil, both of which and also vinegar cause the comb and wattles to scale and look bad. Good condition and cleanliness have won out for many exhibitors whose fowls in the same condition as their opponents' would have lost to them.

THE LEGHORN CONSIDERED.

Those who cultivate the Leghorn varieties have for years diminished size, reduced vigor, and detracted from their shape by the continued use of small, neat hens. In the opinion of many small, contracted bodies are considered the proper formation for them. We have questioned those who breed Leghorns as to breast and body-formation, and only a few seem to understand that the Standard demands a round, full

The American Fancier's Poultry Book.



"The American Fancier's Poultry Book" is one of the best books we have ever offered to the readers of THE FEATHER. It is a grand book, and has been praised by all who have seen it. It is a practical book, and should be in the home of each and every lover of poultry. No matter how much you may know about poultry, you will be certain to find something new in its pages. To the novice nothing better could possibly be recommended. This great book contains illustrated chapters on The Poultry Industry, General Management, The Egg, Incubation, The Chick, Recipes for Feeding, Feeding for Eggs, House Building, Keeping Eggs, Caponizing, Disease, The Standard Breeds of Poultry, The American Class, Asiatic Class, Mediterranean Class, Polish Class, Hamburg Class, French Class, English Class, Game and Game Bantam Class, Bantam Class—Other Than Game, Miscellaneous Class, Turkeys, Ducks, Geese, and Swans. **Price, 50 Cents.**

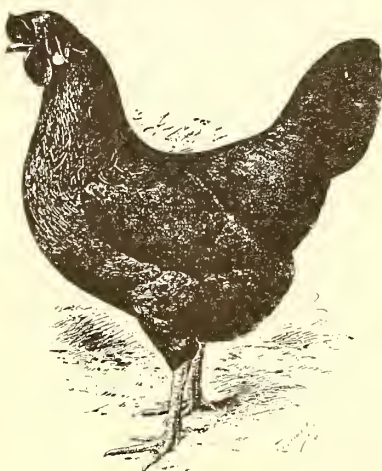
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breast and a deep, plump body of medium length, with the breast of the male carried well forward.

Were we called upon to demonstrate this problem, could we accept the upright carriage of so many Leghorn males, as carried well forward? Is the narrow, contracted breast, so often seen, in keeping with the Standard demand for *round and full*? Is the short back and contracted abdomen in keeping with the rule that calls for back and body of medium length and fluff more developed than in the male? What should we accept as the deep, plump body? Does the miniature formation of the bantam fill the bill? If not, why should we deceive ourselves into the belief of what we know to be in direct opposition to Standard law?

The comb of the Leghorn male should be of medium size, perfectly straight and upright. It should have five points and be deeply serrated, extending *well over the back of the head* with no tendency to follow the shape of the neck. The last demand is of great importance for beauty as is the first, which calls for the medium size. To consider this in detail, it may be said that the only comb which should be tolerated upon the Leghorn male is one of medium size. The too large comb should be counted out because it is of no value in the show-pen or the breeding-yard. The proper number of points and the even serrations are of equal importance.

A comb not extending well over or beyond the back of the head is not a true Leghorn comb, nor is the style that is inclined to follow the shape of the neck a true Leghorn comb. One might well pause to consider the words, "with no tendency to follow the neck." The wording is so very plain that it is almost impossible to conceive a fancier making use of such for other than market purposes. With the female the distinction is most delicate. The comb must be of medium size, have five points, must droop to one side, the front, including

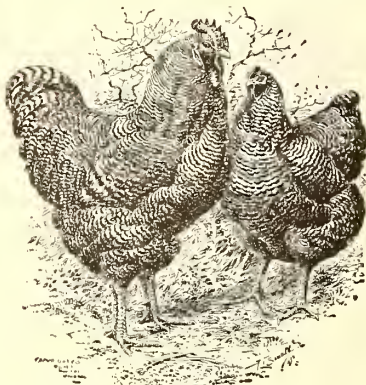


BROWN LEGHORN HEN.

the first point standing perfectly erect. When two points or the whole comb stand erect, it is not a Leghorn comb, nor is it in keeping with the breed for either the male or the female to have large combs. The large comb, the comb that follows the neck, the comb of the female that is large and falling to one side in such a way as to form a loop over the beak is that of a Minorca, and is not a Leghorn comb.

These distinctions might be continued throughout all breeds and varieties, if time permitted, for in each would be found the apparent distinctions as freely ignored. Let the description of the tail of the Leghorn be taken for instance; it must be carried well up, but not upright. It would be well to study carefully this wording and to consider for a moment how many of us fully understand its meaning. From this time on, the Leghorn with carriage resembling the Pouter Pigeon should be discarded. The ill-formed combs and upright tails, all of which are foreign to the breed, should also be discarded.

While considering the Leghorns, a few words regarding the Minorca back and tail may be admissible. The back of the Minorca should be long and the tail should be carried rather back than upright. These requirements might be considered the most important features in this breed. When the short back is present with the upright tail it is by far the best to relegate them to the market-plant; for no matter how attractive otherwise, those who harbor such as breeders move gradually backward.



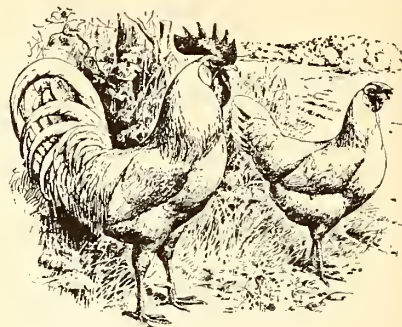
PAIR BARRED PLYMOUTH ROCKS.

Bad faults even when discouraged to the highest degree will continually crop out to our disadvantage. When encouraged they possess themselves of the whole flock.

OUR AMERICAN CLASSES.

It may seem presumptuous to assert that nine-tenths of all the pens mated for the purpose of producing truly meritorious specimens in the American varieties result in an actual waste of time and money, a condition that each and every breeder forces upon themselves, with eyes fully open to the future results in advance. In this broad land of ours there is scarcely one person interested in pure-bred poultry who has not heard the expression, "Like will produce like." Or, in other words, quality will return of its kind. With this idea well drilled into our mind we vainly hope to produce good quality in stock, fit to win in a hot competition, from a pen of medium quality or inferior birds.

We presume that the keenest competition, the world over, at poultry exhibitions is in the American classes. This being the case and with the evidence before us that those who produce the winners possess the very best, from which to produce, how can we hope to excel while we continue in the hope that we may gain the desired end by producing hundreds from medium quality stock? Far better results will come more quickly from one good pair than



PAIR WHITE LEGHORNS.

will ever come from a thousand breeders of modest quality.

Let the breeder gain for himself one, two, or three of the very *best* quality, and slowly but surely build up a truly meritorious strain that will go on reproducing better than itself. In this way only can one hope to reach the goal so much desired by us all. No one has ever produced any number of winners who continually adds new blood to the breeding line. To succeed one must line breed and inbreed as far as it is possible to go and hold size and vigor. This can be continued in for many years if care and good judgment are used in selecting and mating the product.

Self protection should be the first rule of each and every breeder, and to lend this aid in the strongest manner the best of the stock should be reserved. The very highest grade of breeding stock is none too good to grace the owner's yards if one hopes to hold a strong position among exhibitors. It is very well known that money is made from the sale of high-quality exhibition stock. This may be indulged in continually without selling the best breeding stock, for the

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The Latest Book on Homing Pigeons.



The demand for a perfectly reliable and practical book on the "feathered race-horse," has prompted us to publish our new book, "The Homing Pigeon." This book is 16mo in size, printed on excellent paper, and completely illustrated from cover to cover. It is a complete book in every way, and treats thoroughly on the history of the Homing Pigeon, breeding, training, and flying, as well as the many handy and business uses for which these birds may be used. It is fascinating to breed Homing Pigeons, besides being a most practical study. Every detail is told in this book in a clear, concise, and explanatory manner; and the various writers therein have given us a mine of information. The reader is taught all about the selection of good breeders, the breeding of youngsters for racing qualities, training them to the best advantage; also the rules and conditions for flying birds in races, as well as for business purposes. It is a complete book in every way. Lovers of the Homing Pigeon can not well do without a copy of this excellent little book. **Price, 25 Cents.**

GEO. E. HOWARD & CO.,

305 Tenth St. N. W., Washington, D. C.

producers of these high-quality show specimens may be retained and we may rest assured that the birds of real value are the known producers.

KNOW YOUR PRODUCERS.

The most important information a breeder of standard fowls can have is the full knowledge of the producers of quality in their flocks. If every fowl were a producer of the best quality, the real interest in breeding exhibition stock would be gone. In every fancier's flock is one or more hens that produce by far the best of all that he may raise each year. It is to one's best interest to know beyond a doubt these hens from the others. One should also know the manner of male which has the greater influence for good when mated with the best females. Such matings, such fowls and their progeny are the ones that should always be retained within the fancier's yards.

Full brothers or sisters to a philosopher may lack the plainer qualification of mental ability. The yard-companions of the one producer of quality may continually throw culls, but when the most desirable qualifications are bred in and in, with absolute certainty these

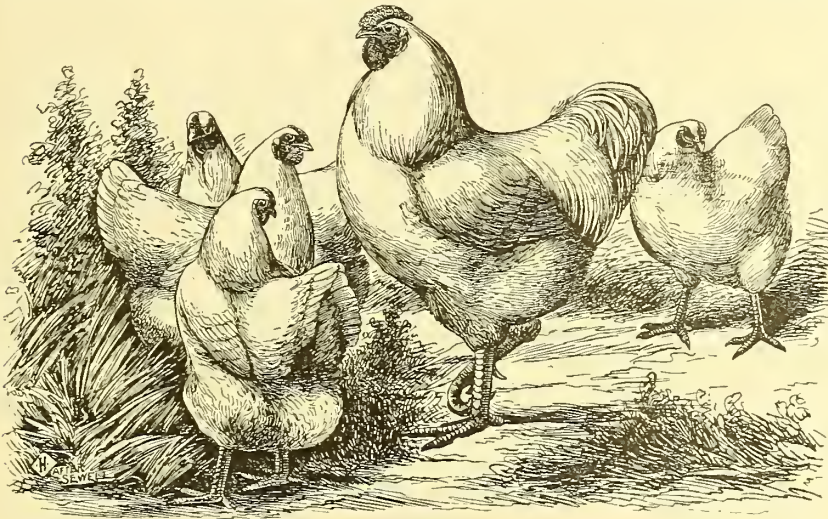
PROPER FEEDING.

Too much importance can not be credited to proper feeding. More of quality, strength, and vigor are retained by this means than many of us imagine. A gentleman owning four fowls—three females and one male—all being known producers, gathered from the three hens sixty eggs, from thirty of which were hatched in his own yard twenty-two chicks; from these he raised five Madison Square Garden winners; the remaining thirty eggs, which he sent to a friend to hatch, yielded not one meritorious specimen. The only reason for this that could be advanced was lack of proper care and attention on the one side as against the best of care and proper feeding on the other, and the man who failed considers himself a good manager of fowls.

Proper feeding implies a sufficient amount of the proper kinds of food, which keeps the young constantly growing and in good health and vigor. For illustration: A certain fancier went to a brother-fancier's yards. Upon arriving where the fowls were gathered together they attracted the attention of the fowls to the extent of being followed about by them; the visiting fancier re-

lose more in one night from being overcrowded than they will regain in three weeks' time. Constant overcrowding will prevent their ever becoming what they might have been.

We all have the desire for more and more constantly, but entirely too few of us tend toward better poultry. What we need for success is more and better poultry, and rather more of the better quality even at the reduction of quantity. As so much depends for success upon our show-winnings, we must pay more attention to quality and condition in those we do raise rather than to try to see how many hundreds we can bring out from eggs laid by all the hens kept. The production of quality belongs to the fancier; the production of quantity to the market farmer. Each has its own position in the handling of poultry. The most difficult problem in the handling of stock of any kind is that of pairing or mating those in our possession in order to produce better than the parent stock. This is an art or an accomplishment that can not be imparted one to another; it only comes from experience gained by one's self by putting into practice methods of our own or those of others, and both. Practice makes perfect to the greatest extent in the mating of high-class stock of any kind, and to succeed in this we naturally build up and strengthen our blood-lines and establish a strain.




WHITE WYANDOTTES.

qualities can be established in the strain. To be successful in this, one must be absolutely certain of the very fowls that produce the qualities desired to obtain, for in this way only can one succeed to any extent. When the only guide is guess-work the chance for success is much less than if one really knew the producer. The very lack of this knowledge often assures failure.

The maintenance and building up of constitutional vigor can be combined with other qualities, if the proper care is given in selecting breeding fowls. Under no conditions should a specimen lacking health and vigor be employed in breeding. Following this rule will prevent, to a great extent, the loss of size and vigor in the flock. The use of any fowl that has had the roup should be avoided, also any that are or have been afflicted with canker or other ailment which detracts from constitutional vigor. By maintaining perfect health and condition in the fowls strength and vigor are kept intact. Only those in perfect health and condition should be employed as breeding stock.

marked to his host: "Do these fowls follow you about because they like you or is it because they are hungry? If they are hungry you had better feed them. If they follow you about for the love of your presence they have learned a very bad habit which will keep them from growing." The owner of the fowls remarked afterwards, and within a few weeks, that he had learned a lesson from his visitor and afterwards his fowls were better fed. A good rule to follow in feeding is, let there be no more stock kept on hand than can be well fed and let the feeding be liberal and regular to all that are kept.

To be successful with high-quality fowls one must keep them growing from the time they come from the shell until finished for the show or breeding-pen. Each time they have a set-back it detracts from their future quality. Let them be constantly going forward, else they must go back. One of the greatest set-backs young chicks can have is getting chilled or taking cold. Next to this is overcrowding at any age or stage of their existence. Either fowls or chicks may

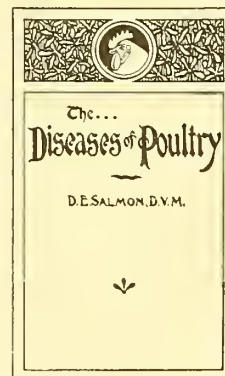


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"The Diseases of Poultry," by D. E. Salmon, D. V. M., is the only standard and reliable work published in the English language on this important subject to every poultryman. The author is too well known to need an introduction, and his works are adopted as authentic by everyone. This is his latest book, and all who breed fowls, whether for pleasure or profit, should have a copy of it. This great book has twelve complete chapters treating on all known diseases which affect poultry.

It has 248 pages and 72 reliable illustrations. This book is printed on finest calendered paper, handsomely bound in heavy covers, and weighs exactly one pound. This valuable book has twelve chapters on the following subjects: Introduction, Diseases of the Organs of Respiration, Diseases of the Organs of Digestion, Diseases of the Organs of Digestion Continued, Diseases of the Peritoneum, Liver, and Spleen, Diseases of the Organs of Urination and Reproduction, Diseases of the Brain, Diseases of the Heart and Blood Vessels, Parasites and Diseases of the Skin, Diseases of the Feet and Legs, Diseases Having a Tendency to Affect More Than One Set of Organs, and Injurious Habits and Vices. **Price, 50 Cents.**

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GEORGE E. HOWARD, Editor.

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APRIL, 1902.

The Egg Trade.

It has ever been our aim to give our readers the best there is in the poultry business, that such information will be the means of their profiting by the vast experience of others. Such was our advice on the early-laying pullets, and those who were so fortunate as to be well prepared for the egg-trade the past winter, have, indeed, much to be thankful for. The astonishingly high prices paid for fresh eggs this season have done much to induce a large number of poultrymen to begin early in breeding for pullets for next year's trade. Will it come again? This is a question that remains to be answered. There is a consoling feature to the controversy if you are prepared to meet it. With a large number of pullets on hand and the "gumption" to make them lay, the assurance is felt that you will be provided with an income that would be otherwise lost. Being fully prepared for business means a great deal to one's income, especially in the chicken business. Fresh eggs always demand good prices, and as meats of all kinds go up in value we must turn to poultry and its products for a substitute. Nothing is more nutritious or less harmful than poultry and eggs as food for old and young.

* * *

Right now, in the midst of the breeding season, we urge our readers again to activity in breeding the youngsters. Hatch as many as you can, and more than you contemplate keeping, but get rid of the cockerels as early as possible, as broilers. Keep only a few for your own use but sell the balance of them as fast as they reach the broiler age. This makes more room for the pullets which can the better be

pushed in growing. Notice the pullets carefully and select the puny or less thrifty ones and let them go to the markets also, as only the best should be kept over for the pens next season. Vigorous birds will prove the only kind worth keeping, and they will not disappoint you when you look for them to lay. Every care and attention should be given the growing pullets through the long and tedious summer months. Every care you give your young stock will be amply repaid when they reach maturity. So many people miss a good thing when they have it in their power to profit by it if they did not become careless. Chickens are not like weeds, and they only grow under cultivation. Every attention counts.

Know your Birds. The profitable hen is the one to be sought after; the unprofitable one should have been eaten long ago. To know your birds is to guarantee you success in poultry raising, but to keep them without a knowledge of their practical worth is to court failure. In every flock of one hundred birds are to be found drones, and these drones lessen the profits much more than is at first thought. Some hens are prolific in their laying while others lay only at intervals. Unless you know your birds you are losing by keeping the latter kind. The flocks should be carefully overhauled, and all non-layers weeded out and sent to market as soon as they are discovered. Begin at the foundation and study the laying qualities of the pullets. Watch them closely and select all dilatory or slow layers from the flocks and dispose of them immediately. The early-laying pullet will yield her profit in eggs, besides proving the best of breeders when new stock is wanted. To know your birds you must be with them and study their natures, and once having learned them, sailing is much plainer ahead. Old stock that is intended to be marketed should be sold during June and July for roasters. During these months this class of poultry is scarce and higher in price than later on. Begin sorting off your old fowls by watching them, and try to discover which ones are paying and which are not. Those that are not paying should be fattened and sent to the markets, for their room is worth more to you than their presence. If you know your birds you will know just what to do; if you do not, you should find them out.

Eggs for Hatching. It will pay you well to select the eggs that you use for hatching. The hens that lay the most eggs and the best eggs are the ones whose pullets will prove to be the best layers. Such hens should be selected to lay the eggs that are to be used for hatching. Only males from such hens should be used in your flocks. The instinct or habit of laying a large number of eggs will be transmitted from one to the other the same as the best milk cow will produce the best heifer. All these things come the same in line, one from the other, as good corn comes from the best seed or anything else we grow or raise. From the best, better will come; from the poorest will come poorer than they are themselves. Care of this kind in breeding has brought the egg yield of our hens from sixty per year to the two-hundred-eggs-per-year hen that we have written so much about. Those who pay attention to these things make money by keeping hens. Those who look for better things find them usually if they look hard in the right direction; while those who

DO YOU WONDER WE ARE SHIPPING?

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S. C. BLACK MINORCAS. 1st chl. at Boston for 3 years. 6 elegant matings of the Glossy Bronze Greens.
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LIGHT BRAHMAS. Unexcelled for standard points. 6 pens, the large kind, with feathers on their toes.

EGGS \$3 per set. (12); \$5 per 24; \$15 per 100.
Special Ckl. Matings, \$5 per set. (12)...

I also have over 3000 choice laying-bred stock of above varieties, line bred since 1888 for great egg-production from earliest maturing, fully developed stock and best yearlings from which I shall sell eggs at \$2 per 12; \$8 per 100; or chicks, \$15 per 100, right from the incubators. Any variety shipped in safety within 24 hours' travel. Elegant descriptive catalogue free.

ELM POULTRY YARDS, Box F, Hartford, Conn.

are indifferent to such things go on in the same old way, having no eggs in winter and a few in the spring and summer. It is just as easy to have success as failure with hens.

Our Frontispiece.

The beautiful picture on our front cover this month is an inspiration of the spring season. At this time of the year when Mother Nature is awakening from her winter slumbers, our thoughts and desires take many turns and form many resolutions. All nature is bubbling over in joys and anticipations, and the little downy broods, like that shown in our picture, are scattered all over this broad land. The attractiveness of spring is carefully delineated and the atmosphere hangs over the whole picture. In each of the broods is to be found the hopes of the poultryman for his year's work, and these charges are to be carefully and considerably kept, that their development will be all that is anticipated. The attractiveness of this picture should retain its freshness with you and be a reminder of the work that is before you. This is the very beginning. What will the end be?

As Others See Us.

Below are given a few more of the kind words spoken in our behalf by readers and advertisers in THE FEATHER. It is a source of satisfaction to know that our efforts are appreciated by our patrons, and we feel very much, indeed, these tokens of their appreciation.

"Should this be of any interest to you, I will state that my advertisement in THE FEATHER has been very satisfactory; in fact, it has sold all the cockerels I care to sell, leaving me only enough for breeding purposes. Say this to the readers of THE FEATHER in order that those interested may know I have no more for sale just now." Jas. A. Davis, 710 Chestnut Street, Portsmouth, Va.

"Please change my classified ad, as I sold out all of the stock before THE FEATHER was out a week, and am still receiving lots of inquiries. I must say I was greatly surprised to find how quickly the little ad in THE FEATHER sold all of my stock. I must also say that last season I sold more eggs through the little ad in THE FEATHER than four other papers I advertised in put together. I find it pays to keep my ad running." F. S. Zwick, West Seymour, Conn.

"Congratulations belong to Mr. George E. Howard for the excellent color-plate of Partridge Wyandottes which he presents on the front cover-page of the March issue of THE FEATHER. The Partridge Wyandotte (illustrated as Golden Penciled) is yet but a new variety, but they have a bright and promising future before them; and I believe this attractive color-plate, as well as the ones which are being given each month, are highly appreciated by the readers of THE FEATHER." D. M. Green, Syracuse, N. Y.

After receiving the December number, James L. Higgins, owner Meadow Brook Stock Farm, Detroit, Mich., writes: "I am in receipt of the Christmas number of THE FEATHER and it is a beauty."

Perfected Incubation

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INCUBATORS... AND BROODERS.

STAR INCUBATORS are all double cased, which provides a dead-air space between the cases, and are well lined and packed, thus insuring the incubator holding its temperature in any country where poultry is raised. Every machine has a nursery under the tray—a most valuable feature.

WE CLAIM for the Star Incubators that regardless of what may be the existing conditions in the room or cellar where the incubator is located, whether it be very damp, even to water standing on the floor, or whether it be very dry, by the time the air has come in contact with the heat flue, entirely surrounding it and in the same manner passing across the radiator, it always will be dry and warm when it is discharged into the egg-chamber. Hence we use no moisture.

STAR BROODERS are built upon the same line of excellence of our incubators. Nothing but the very best of everything is used in their construction, and we believe our models to be perfect. It is an old saying that a chick hatched is surely raised in a Star Brooder. We are not satisfied to sell you one incubator or one brooder, but to make our machines so that they give such satisfaction that each customer comes to us for his second and third.

**INCUBATORS, \$6 UP.
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A Full Line of Poultry Supplies
and Appliances.

SOUTHERN POULTRY SUPPLY CO.,

429 11th St. N. W., Washington, D. C.



THIS department is given over freely to our subscribers. Queries will be answered as promptly as possible and in the order received. Correspondents are requested to write on one side of the paper only, and be brief and to the point. Short articles of general interest to poultry and pigeon breeders, records of laying, recipes for feeding, plans of houses, appliances, etc., are solicited for publication in these columns.

Spring Duties that Pay.

The time is now at hand when all poultrymen should be fully employed rearing the winners for the coming winter shows. The result of your labors will prove the true quality of your matings. There is nothing so certain as that like will produce like, or that true quality can only come from selection. If all those who attempt to breed or produce high-class show stock would show equal anxiety during the early spring montas that is evidenced within the show-room, more poultry of a better quality would be the result.

Lack of attention from March to November can be set down as the reason for so many disappointments. Those who neglect the slightest item of poultry-yard necessities during this period can not hope to succeed. It is utterly useless to hope for good results when lax methods are applied to poultry culture. Nothing but strict attention to the work at hand will win out at any time in this business, for business it is, and it is a business of the highest character as to the number and value. The brains of the whole farming community are busily engaged in their effort to make dairy farming succeed, and the poultry business exceeds it in magnitude.

The cow that returns one dollar and sixty cents per week in butter or milk is about the average. This is in forty weeks, sixty-four dollars per year, for but few cows give average full returns for more than forty weeks in the year; while the hen that gives but one hundred eggs per year at one and one-half cents each pays for herself, her keep and a profit, and where good hens are kept and their eggs sold for two to ten cents each for hatching, they pay almost four hundred per cent of their value. This is why we call your attention to their selection and care.

MATINGS.

Those who use poor or inferior specimens in their matings waste their time and food. Fifty good specimens that will sell for two dollars each bring you just as much money as two hundred that sell for fifty cents each, and those fifty only eat one-fourth as much food and demand one-fourth the care that must be given to the two hundred. For this reason we urge you to select closely in your matings. Only use a few of your very best hens from which to save eggs for hatching. It is a waste of time, space, and food to attempt to grow exhibition fowls of merit from inferior

stock. The very best will throw quite enough of the poorer quality, so why should you waste your time, space, and money in the wildest hope for success with poor stock?

It is not too late yet to re-mate your stock, so by all means cull close, even though you find but one pair in your whole flock fit for producers. One setting of eggs from the best is of more value to you than all those you get from inferior hens. Those who succeed do so by these methods. Those who have thousands to sell do not raise the high-class show specimens. It is the careful, close breeder who keeps only the best who wins out in the end. Those who know the value of using only the best hens obtainable with the choicest male are the ones who make the keeping of high-class poultry pay.

CONDITION OF STOCK.

None but the most healthy stock will produce that which is desirable to have. Don't try to deceive yourself into believing that you will get good results from fowls in poor condition for you most positively will not. A lot of fowls that have been rousy during the winter

or early spring will not produce good, healthy chicks. The young from such have bowel trouble, colds, grow slowly, feather badly, and seldom attain good size or weight. When winter comes again such young stock is most apt to get bad colds and roup. Don't for one moment hope that the results will be otherwise. Good health is the main assurance for success. Keep this well in mind as the right-hand companion to good quality.

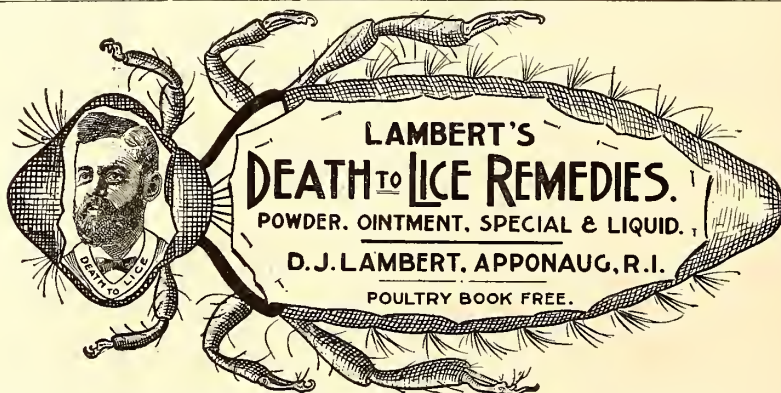
We have known the taint of roup to continue on for several generations, sowing disaster in all directions. We know of one man of large experience who killed the contents of one whole house, in all one hundred and sixty fowls, because some of them had the roup, and in addition to this he killed every fowl on the place that coughed or sneezed during the whole of that winter. This was done to prevent any chance of its getting into his breeding stock. If all would do this and refuse to have, breed from, or sell any sick fowls the whole of the poultry interest would be benefited.

PROPER HOUSING.

Dry, well-ventilated houses are by far the best. Currents of air or cold draughts through the henhouse are bad, but plenty of good, fresh air is best, even during the cold days of winter. At night all may be closed in comfortable and warm, but during the daytime let in the air. Dampness is most disastrous, but a damp house may be made tenable if properly ventilated, which can be done from any one side, providing there is no possible chance for a draught through the house. Well-kept, well-ventilated, and thoroughly clean houses should be almost proof against sickness of any kind among the flock.

This same rule should continue into the management of sitting hens and the young chicks. When we dwell where

Valley Farm Bronze Turkeys won half the N. Y. Show firsts.



DON'T WRITE ME...

Unless you want eggs that will hatch good, strong, healthy chicks from stock that has won highest honors in hot competition all over the country. Price, \$2 per setting; 2 settings, \$3; 3 settings, \$4. Incubator eggs, \$5 per 100, from Barred and White Plymouth Rocks, White Wyandottes, Light Brahmas, S. C. Rhode Island Reds, and Pekin Ducks. For further particulars address

The Goodrich Poultry Farm,

Lock Box 5, West Duxbury, Mass.

B. F. GOODRICH, Proprietor.

dampness abounds sickness prevails. So it is with our stock of all kinds. Every living thing on earth must have a dry spot where it can go or else it will perish. The birds of the forest cry with a pitiful voice during long-continued rains, so with all manner of life on this earth. Continued dampness and wet will destroy vegetable life as well as animal life, so we must calculate against all this as we provide for our fowls, both young and old.

THE VERMIN PEST.

From now on lice and mites of many kinds will come in clusters to destroy, when they are allowed a free hand. Those who bestow the proper care and cleanliness on the fowls' houses and small coops will have but little bad results from them, while others less careful may see the very life of their young stock ebb away and wonder at same. With the presence of lice paints, killers, and powders on every side, with the journals full of warnings against this pest, and the fact that every man, woman, and child has heard of them, one would think that the whole population of the world would know better than to let the lice get the upper hand, but they don't seem to heed these warnings, and the lice go on killing the young stock by thousands.

The way to be rid of them is to begin now at once to paint the roosts, nest-boxes, cracks, and crevices with some good lice paint, either that you can buy, or make yourself by mixing a pound of naphthaline balls in a gallon of kerosene oil. Use some of these mixtures continually. Don't let up so long as a louse has a chance to live and work about the place. Keep on for they work while you sleep, and hide when you are awake.

Like a thief in the dark or an electric spark,
They go on hunting, by night and by day;
They sleep while you work, and work while you sleep,
Continued watch only drives them away.

GRAIN, GRIT AND GREEN FOOD.

The diet of fowls must be of such quality, quantity, and character as to furnish both animal and vegetable, and grain food. For the assimilation of this they must have plenty of good, sharp grit, and some shell or lime of some kind. When they are properly provided with all this, and

the necessities above mentioned, good results should follow, but like the watch or the clock, if one of the many wheels is missing it can not run, so with the hen, if any of the demands for life, health, and comfort are neglected all goes wrong with them. It is the proper semblance of all that brings the best results in the hen business. While all this seems a good deal, it can be quickly accomplished if we arrange our labor in the poultry-yard to the best advantage. To sum up the situation: We only need to have well-selected stock, properly mated and cared for to succeed. Therein is the whole matter. It is only a question of quality and care. All of this is a part of the business that all who hope to succeed must understand and carry out. The fulfilment of this assures condition and health. No one should hope or attempt to keep any living thing in poorly-constructed houses, and to improperly feed any animal or bird is a sin. So can the whole situation be summed up.

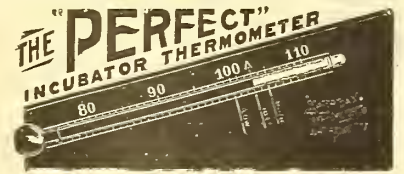
The beginning only is here. In the future the poultry business will be larger and more profitable. More and more each year will poultry and its products become part of our food. Other and larger meat products will of necessity become more expensive and harder to handle as the lands become more closely populated. Poultry will be kept on every hand, and as people study their care and consider them as a part of their living rather than a matter of speculation they will do better with them. In the near future every part of the fowl from feathers to bones will be made use of to the profit of the producer.

Game Fowls.

Editor The Feather:

Your recent article on this noble family of fowls contained so many inaccuracies that I can not help calling attention to a few.

In the beginning, that article purported to describe "all breeds," but just think of the many that are lacking. Where are the old-time Muff of Ireland, the Tassel of England, the Giant Bruges of Belgium, the Combattant du Nord of France, which latter has so often in recent years defeated the best the British could produce? Where are the "Finos" of Spain and Cuba, the Shamo



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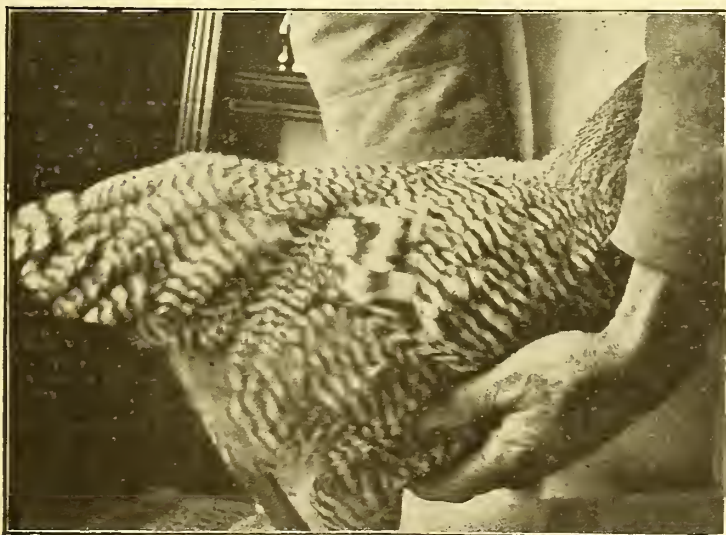
of Japan, the Colonial of Australia? Where, indeed, are our own native races? The original American Dominique (not the standard variety of that name), is a Game fowl of home production and has been bred in this country since earliest times. The Trans-Atlantic is the bird which made America famous in the cockpits of the old world, and is better known in some parts of Europe to-day than any of our standard exhibition varieties. The Red Quill of Washington (right in THE FEATHER'S home), is also worthy of mention, while Rose Combs, Cup Combs, and other peculiar varieties may be found in several sections of the country.

In point of antiquity there is no comparison between the Aseel and the Malay. I am aware that Lewis Wright and some others often speak of the Malay as an original and primitive race, but it is no more so than is our modern Buff Cochin. The Aseel is a genuine thoroughbred. The Malay is not a thorough-bred; only a standard-bred. Do you catch the distinction?

Sir Claud Alexander is mistaken when he thinks Aseels are bred to color in India, and that "the only colors permitted are black-red or bright ginger." In fact, the colors he names are comparatively scarce in the Kingdom of Oudh, and what were really the best Aseels I ever saw were some solid blacks from the city of Lucknow.

As to Lewis Wright's authority on the subject of Indian Games, it may be sufficient to merely call attention to the

Valley Farm White Rocks won at Pan and N. Y.



Rox Barr Farm.

Barred Plymouth Rocks.

Stock for sale. Eggs, \$3 per 13; \$8 per 100.

**BUFF PLYMOUTH ROCKS,
WHITE WYANDOTTES,
S. C. WHITE LEGHORNS.**

Eggs of these, \$1.50 per 13; \$8 per 100.

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White Plains, N. Y.**

85c per 100 sq. feet with caps and nails.
In use by thousands of poultrymen. For samples and circular address

SWAN'S EXTRA HEAVY FELT ROOFING.

The A. F. SWAN CO., 116 Nassau St., New York.

fact that in his revision of 1891, he imagined the Cornish and the Aseel to be one and the same fowl.

Now for the old "Pheasant Malay." It was a grade Aseel and was merged into the Cornish when the latter came out as an independent variety in the year 1886.

Wright is in error about Sumatra Pheasants, as any Game man could have quickly told him. In England the word "pheasant" refers to color alone, lacing or pencilling; while in America the word is used only in connection with shape and carriage.

The Blue Madras birds of Fowler's importation were not genuine Game fowls, as Mr. Gordon would have quickly learned had he put them to the test. The latter-day "Madras," including Atkinson's Crystal Palace winner of 1895 and his progeny, were Game all right, but they never saw India. I was with him when he got the old twelve-pound blue cock in the north of France.

Lewis Wright's remarks on standard exhibition Games are quite interesting and instructive. This is the one branch of the Game family where he knows what he is talking about.—H. P. CLARKE.

[We publish Mr. Clarke's article for the benefit of our readers who are interested in the Game fowl. We desire to state that it was not our purpose to search the world over for every strain of fighting stock that may have existed, but to confine ourselves more particularly to the recognized standard breeds of exhibition Games. The "Red Quills" of Washington, which he mentions, is a pit bird of much renown among fighters, but not more so than numerous others we can call to mind. There is no distinctive type of character to these birds to give them a standard other than their "scrapping" qualities, and, we believe, the "Katy-dids" can do as much under favorable circumstances.—Ed.]

A Battle with Lice.

Editor The Feather:

It is very expensive to feed a flock of fowls when their best blood is taken from them to support a much larger flock of lice of one kind or another. Fowls seem always to have some lice about them, and the few they may have will increase very rapidly in the warm summer months. The question is how to destroy the little thieving legions most effectively. Persian insect-powder is very good during the setting season. It is well to sprinkle the new straw in the nest with the new eggs and the broody hen when first the sitting is begun. Then to be on the lookout for any further trouble, and as soon as there is the first indication use the powder at once.

The question as to how to destroy these robbers and to keep them out of the hennery during the summer months is one the solution of which is a problem to some who are interested in poultry keeping, and poultry-keepers do not want untried theories along this line any

more than Uncle Sam wanted untried methods of warfare after the Maine went down.

During the past summer I had planned to be away for two months—July and August. I had some young Silver Gray Dorking chickens just large enough to go on the roost in my hennery. Besides these I had about fifteen grown hens, making a total of about fifty fowls. I did not expect they would have the best of care in my absence and therefore I did what I could before leaving them. I thought first of lice and decided to deal them as dead as a blow as I could. I took everything out of my henhouse—even to the heavy paper lining on the walls. Then I swept the walls down and the floor. I took out the roosts and saturated them with kerosene. I took out the dropping-boards and swept them off. Then with the paper from the walls I made in my hen-yard a fire and had the flames play about the dropping-boards until they were made very hot. The oil-soaked roosts also went through the flames, and thus every louse and every egg were thoroughly roasted. I then white-washed the interior of my hennery very generously, giving it two coats, and permitting a good deal to run down on the floor. I took an old broom and spread this all over the floor.

When I returned from my trip I examined my henhouse for lice at once. I could not find one, not even the sign of one. My fowls looked very well, and had a good song to sing because of plenty of life.

I shall use this same precaution at the beginning of every summer and believe it will pay large returns.—C.

What Poultry Shall I Keep?

Editor The Feather:

As a breeder of four kinds of poultry, namely the Buff and Barred Plymouth Rocks, White Wyandottes, and Light Brahmas, I have frequently been asked the question—What kind of poultry would you advise me to keep?

I have had persons look at my yards of poultry and they would go away fairly confused as to what they had better do; invest in Buff Plymouth Rocks, Barred Rocks, White Wyandottes, or Light Brahmas. All of them presenting certain charms and having their fascination. Now the question—What breed shall I keep? is perhaps easier asked than answered. It all depends on what one wants to make the object. Every breed of poultry has its advantages and disadvantages. For general hardiness I find the Light Brahmas unequalled. I have bred them for years and I have formed such a liking for them that I find it almost impossible to discard them. Then, too, the Brahmas are a fine, stately looking fowl and especially good winter layers with the proper attention paid them, only you dare not feed them as strong as the most of fowls or they will take on too much fat, and hence will not do so well. They want to be

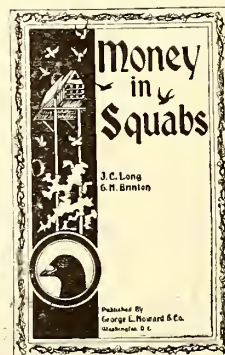
fed a good deal on serials of various kinds to make them scratch and work for their living. My Brahmas have always given me good satisfaction taking them all through, and last year I had no little demand for both eggs and fowls of this breed. Indeed people just wanted them and they could hardly tell why. I suppose it was because they were pleased with the beauty and dignity of their general appearance, for a flock of Brahmas certainly do look charming when out on a lawn together. For villagers and those who do not want any trespassing done by their chickens, I do think the Brahmas have a decided advantage, as they will not attempt to fly over a fence three feet high. This feature of their nature, and the fact that they are good winter layers under proper conditions and are an easily-kept fowl is much in their favor.

As to the other breeds above mentioned, they, too, are sufficiently known to be appreciated, especially the Barred

Valley Farm, Salisbury, Conn., introduced Faverolles. Eggs.

Money in Squabs.

A Practical Treatise on Raising Squabs for Profit.



The most interesting and the only practical book published on raising squabs for market, is our book entitled "Money in Squabs." This book has had a most generous sale during the past year, greatly exceeding the expectations of the publishers, and is, without doubt, the only reliable publication of its kind. "Money in Squabs" treats of every topic pertaining to pigeon raising, and is illustrated with the most modern and practical ideas for housing and breeding pigeons on a large as

well as a small scale. You will surely be interested in the industry after reading this book, and the information gained will be worth many times its cost to you. "Money in Squabs" contains chapters on the following interesting subjects:

Introductory, Breeding Houses, Breeding Stock, Distinguishing Sex, Food and Feeding, Water, Salt, Nesting Material, Manure, Breeding and Management, Dressing Squabs for Market, Shipping and Selling, Diseases of Pigeons—Canker, Cholera, Egg Bound, Enteritis, Going Light, Roup, Small Pox, Sudden Colds, Wing Disease, Worms—and Douglass Mixture. Some of the illustrations are: Full-page drawings of Homers, Runts, Dragons, and Duchesse Pigeons, Plans of Single, Double, and Continuous Houses for Breeding Squabs, Arrangement of Aviaries to a Garret Room and to a Barn, Plans for Building a House in the Back Yard, Plans of Nests, Perches, Mating Boxes, Bath Tubs, Drinking-Fountains, Salt-cat and Grit Boxes, etc., etc. This book is thoroughly practical, reliable, and of untold value to all who are interested in raising pigeons, for profit or pleasure. Price, 50 Cents.

GEO. E. HOWARD & CO.,
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Plymouth Rocks, which have kept their place of popularity for many years, and will for years to come. They will always rank high for their beauty of form, yellow legs and skin, and good qualities in general. I have bred them for years of the Hawkins strain, and for an all-around fowl I find them hard to beat, as they are good layers and are an especially good market fowl.

The Buff Rock, however, I believe to be the superior of the Barred Rock in point of general hardiness. Such at least is my experience in the last three years or so. Even the now-popular White Wyandotte can hardly stand by the side of the Buff Rock when it comes to the matter of general hardiness. I am almost sure they can not, though the White Wyandottes may, perhaps, lay a few more eggs in the year, but I even doubt that claim. The Barred Rocks always had a certain objection with me, and that is the natural tendency to get so fat or heavy *behind*, so called, and that invariably means trouble as they get two or three years old. Such is not the case, however, with the Buff Rocks. The only possible objection to the Buff Rocks, as it looks to me, is the buff color, as some people do not like a buff chicken for anything. With me it is different. But like the woman who kissed the cow, "everybody to their liking." I like the buff color, and all things considered, give me the Buff Plymouth Rock fowls above all others. Mine are beauties, and while I am proud of all my different pens of fowls, I am especially so of my fine strain of Buff Rocks.—JAMES Q. MYERS.

My Experience.

Editor The Feather:

With an abiding faith in the ability of the average American woman, having through the vicissitudes of life been placed upon my own resources with a dismal future staring me in the face, but having through good fortune emerged from the Stygian gloom that enshrouded me, I would like, if you will permit, to say a word or two to other young women who may be struggling for a livelihood, as to a good method of relieving themselves of the bondage which apparently surrounds them, striking from them the imaginary shackles with which they are bound, and stepping out into the broad sunlight of independence and prosperity.

The thought has often occurred to me, that there would be much less agitation of methods for ameliorating the condition of women and girls who at an early age are left to their own resources, if the said young women were more self-reliant, and exercised for themselves at least a portion of the energy others are expected to exercise for them.

The idea has been strongly impressed upon my mind by reviewing the present (apparently chosen) occupation of a number of my school-girl friends. I can truthfully say, with the exception of myself, each one is dependent upon some one else for the means of securing a livelihood. Here in Des Moines, Iowa, are a number of institutions of learning of various kinds, and as a consequence many of our young people take to education for a living—a very laudable aspiration—but, unfortunately, the supply seems to be greater than the demand. One day I began to think; nothing particularly strange about that; decided I

would not travel in the same old rut; looked around for something to my liking; too independent to do as the other girls were doing; decided to establish a business of my own that would be both pleasant and profitable. But what should it be? People will always eat. Chickens! The very thing. For them there will always be a steady market at remunerative prices.

The result—Bought all the hens I could find for sale, and started a poultry-yard for profit. Succeeded fairly well, but the profits were not what they should have been, as the best part of the hen's life was spent in hatching chickens and raising them. There was generally a dearth of eggs, the chickens were covered with mites, and the hens wandered so much that many of the chickens were lost or destroyed.

The next year I changed my tactics, and decided to hatch chickens by machinery, the product of which I found to be more healthy and cleanly, and after much inquiry I bought an incubator and brooder and went to work with zest. My first efforts were somewhat disappointing, as I had not been sufficiently careful in observing instructions. But by the time the second hatch came, I had learned to operate it to the best advantage, and succeeded admirably. By watching all the points carefully, I came out at the end of the season a little over \$135 ahead of all expenses. But I had learned a lesson more valuable than the number of dollars I had received and determined to profit by it.

The past season has been a revelation to me, and early in the year I bought two incubators and brooders, one of which I used for chickens for the market, and the other for the raising of blooded stock, and so well did I succeed that when I balanced my books Nov. 1, 1901, I found a credit to my account in the bank of \$364.75 with my machine and a variety of chickens all my own, and my expenses paid for the year. I contemplate enlarging my sphere of operations, and am inclined to add to my enterprise the raising of Pekin Ducks, Toulouse Geese, and Bronze Turkeys, although some of my friends are trying to dissuade me from so doing, on account of the increased cost; but if the incubator I am using does as well with turkeys, ducks, and geese as it has with chickens, I can see no reason why I should not more than double my income.

Girls, do as I have done; strike out for yourselves; decide upon a line of business that will make you independent, and don't for goodness' sake, always be a burden upon some one else. Mind, I don't say go into the chicken business as I have done, but go into something whereby you can maintain your independence, and not be a burden upon those who are supposed to furnish you at least a comfortable living. Stand straight up and be independent.—MRS. LOUIE E. FLETCHER.

Still A Favorite.

Editor The Feather:

Replying to the little article on "Buff Leghorns" in January number of THE FEATHER, the writer is pleased to say that there is no danger of the interest in Buff Leghorns being allowed to wane. After reading the article mentioned, the writer took particular pains to gather all the news possible on the subject from the best breeders of Buff Leghorns, finding them to a man entirely closed

out of surplus stock, the last letter arriving to-day from Mr. Arnold, who states that his stock was closed out six weeks ago. We were closed out a month ago and have had to answer "no more stock" to many letters since. There has never been such interest shown in the breed in our eight years' experience

Valley Farm wins now, not years ago. Stock, Eggs.

Money-Making Hens,

NEW KINDS.

PARTRIDGE WYANDOTTES,
Brilliant plumage.

DARK BRAHMA WYANDOTTES,
Silver Pencilled, Beautiful Soft Gray.

VIOLET WYANDOTTES,
(Bunch of Violets.)

SICILIAN WYANDOTTES,
(Lay at 4 mos.)

8 first prizes, 3rd, 4th, 5th and 6th
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BOILED BEEF AND BONE.

Live, healthy, strong, and vigorous chicks are always hatched from hens when Romaine's Boiled Beef and Bone is fed to them.



Nothing can possibly make hens lay more or better eggs than B. B. B., as it takes the place of insect life for both hens and chicks. It contains the nutritious elements found in meat. The egg-basket is always filled, and chicks grow faster when B. B. B. is used.

B. B. B. Is guaranteed cheaper than meat, better than scraps and safer than medicine. It will make hens lay more eggs and keep them in better health than any other food or condiment. Sample free. 50 lbs. \$1.25. 100 lbs. \$2.25.

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It has paid us to discard the other makes, it will pay YOU to KNOW WHY
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Catalogue { Best and most complete ever issued by a poultry plant,

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To you and all your friends, write to-day.

The Puritan Poultry Farms, Inc.,
Box 357 J, Stamford, Conn.

with them as has been shown in the last year.

True, Mr. Cornell has a new breed of his own origination which naturally occupies his attention. Mr. Arnold has taken on several new breeds, but he has lost no interest in his favorite Buff Leghorns, and when he has more stock ready for market you can buy just as good stock of him as when he made them a specialty. A more careful, conscientious breeder never lived than E. P. Shepherd, and although death has claimed him he left us some of the best Buff Leghorn blood in the world.

We must acknowledge our breed has not the push behind them they once had in this country. At the same time there are a large number of men breeding them who are engaged in other business, and who do not have the time to follow up all the shows, but are with their favorites daily, and who are breeding as good, if not better, birds than have been bred in previous years by the breeders mentioned. So let us take fresh courage and do everything possible to push to the front one of the best all-around breeds in the Standard.—WM. L. HOWELL.

Line-Bred B. Andalusians at Chicago.

Editor *The Feather*:

The exhibit of Blue Andalusians at Chicago this year was a gratifying success to all lovers of that variety, and a revelation to the large class of people who, in the West, are unacquainted with that breed. "Blue Corner" at the Coliseum was very well patronized, and the birds there on display were certainly very fair specimens of a variety that needs but to be known to be appreciated. There were twenty-three singles and two pens entered. There were three exhibitors, one from Pennsylvania and two from Chicago. The winning cock was five years old and had a record of having won four firsts at Toronto, New York, and Chicago. Beside him were three hens, descendants of his. The winning hens, pullets, and cockerels were all descendants of the winning cock, though not in his owner's hands. The eight other Andalusians shown were not of his strain, and won only fourths and fifths. In other words, the winners were all line-bred; the ancestors and descendants were on view, and a card was prominently displayed calling the public's attention to that fact.

Line breeding, or in-breeding is often sneered at by the inexpert—here was a practical object-lesson in the results of careful and judicious line breeding. The cock himself was the result of generations of line-bred fowls, a large, vigorous, typical Andalusian; his descendants were in the show to refute any suspicion of degeneracy resulting from line breeding. Line-bred ancestors and line-bred descendants were on view to invite the attention of the public to a practical demonstration of the practical result of the system.

In the egg display were a dozen Blue Andalusian eggs, laid by hens sired by the winning cock. These eggs were the heaviest eggs shown, competing with fourteen dozen other eggs. They weighed thirty-two ounces, five ounces more than the next competitor, a Minorca dozen which weighed twenty-seven ounces. When hens, line-bred for gener-

ations, lay eggs weighing six to the pound, surely line breeding can not be said to be a failure.

In spite of what timid souls may think to the contrary, line breeding is no longer a theory with expert fanciers, but an accomplished fact.—E. L. C. MORSE.

French Fowls.

The interest displayed in the culture of French fowls shows that our people are looking for the very best market poultry for their own use. Much of this is the result of the painstaking fanciers who hunt up these high-quality fowls and bring them here and acclimate and Americanize them for our use. Considerable of this has been done by the owner of Valley Farm, who has done so much for the Houdan and Faverolle to make them one of our fowls. Vast sums have been spent in this way to show our people the real sterling qualities of these high-quality table fowls.

At Valley Farm they have recently received from abroad a large consignment of these new French fowls to enable them to fill the orders for eggs that come from those who are interested in them all over the country. We fully illustrated these fowls in the columns of *THE FEATHER* in our October issue. This seems to have aroused the whole country as to the real value of these birds, and set them to thinking of more and better table poultry. This unusual activity in this way, we presume, may be largely due to our effort in their behalf.

The Dorking.

The English Dorking is, no doubt, one of our very oldest fowls. The fowl having five toes is mentioned almost two thousand years ago by a Roman writer on agriculture. These fowls are the pride of England in fine poultry, as are the Shorthorns for beef, and the Southdowns and Suffolks for mutton. All are built on the same lines for the purpose intended. Nothing is lacking that might make the better table poultry in the Dorking. They have the size, the long, full breast and body, the delicate skin and flavor, and the aptability to be always ready for the spit.

The past winter will long be remembered as the banner year for Dorkings in our poultry shows, so many of them and so fine in quality one must be pleased with them. For size we have never seen anything to equal them; even larger than Cochins many of them, and so handsome in plumage, both in the Silvers and Whites, as well as the dark or Colored Dorking. All three varieties were so good that one could have only the color preferred to guide their selec-

Valley Farm, Simsbury, Conn., sends an artistic catalogue free.



ORR'S LIQUID LICE KILLER

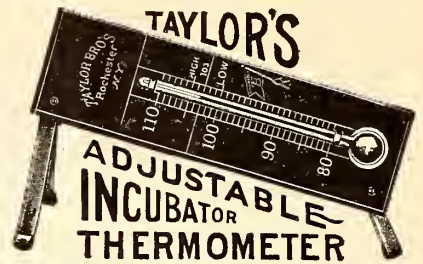
Does the Business Quicker and Better than any other.

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BY MAIL SAFELY PACKED.
75 CTS. EACH. 3 FOR \$1.50.

TAYLOR BROS. CO.

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tion of preference in this line. These fowls are rather good egg-producers for so large a fowl; their admirers claim them to be fully equal to our American breeds in this line.

Changes.

The manner and method of handling and showing poultry has so changed in the past few years that one can scarcely realize that at one time the fowls were shown in pairs or trios in coops made out of store boxes with slats nailed on. In these coops all fowls were shown in their natural condition, dirt and all; feather-legged fowls with their shanks and foot-feathering all matted with dirt, plumage soiled, and no one ever thought of washing the shanks or feet of the fowls. The dirt was not even cleaned from their face and head, and with all this they were seldom cut on condition.

To-day we have nice, regular show-coops, put up in line to beautify the hall. The fowls are all in fine, clean condition, and everything is attractive and pleasing. Then it was dollars to cents that you would not get your premium money; now a show must pay or quit. Then we paid twenty-five or fifty cents entrance fee to have a show, and were glad to have it, but to-day we go to win the money and we want it when it is due. All these are the gradual changes of the time that come with improved methods and better stock, at the same time there are some localities in which the same old ways are in use, and those who are fully satisfied with them are quite as well pleased as are the others.

Valley Farm wants your trade. Stock and eggs, and good ones.



Barred Ply. Rocks Exclusively.

Line-bred for years.
Winners at the Leading Shows. Eggs, from fine selected matings that will produce winners, \$2 per setting. Satisfaction Guaranteed.
D. BROWN, Stowe, Pa.



THE BUSINESS WORLD

As Viewed from the Columns of
The Feather.

THE WELLESLEA STRAIN.

Our readers are all well acquainted with the "Welleslea" strain of Barred Plymouth Rocks, bred by C. H. Welles, Stratford, Conn. This strain was established in 1886, and since then Mr. Welles' record at Madison Square Garden and other of the largest shows, has given him a national reputation. Since 1899, when his record was unparalleled, his business has so increased that, to do justice to his customers, he has refrained from exhibiting.

Mr. Welles' birds are bred in line of birds that have won in the strongest competition and that will reproduce themselves, and that for under-color and clean-cut barring can not be surpassed.

We show in illustration one of the "Welleslea" pullets of last season, a member of one of Mr. Welles' breeding-yards. In a recent letter to us he says: "I have some grand matings, and this pullet is but a fair sample of my stock. I am prepared to furnish eggs from same birds as I hatch from myself, and

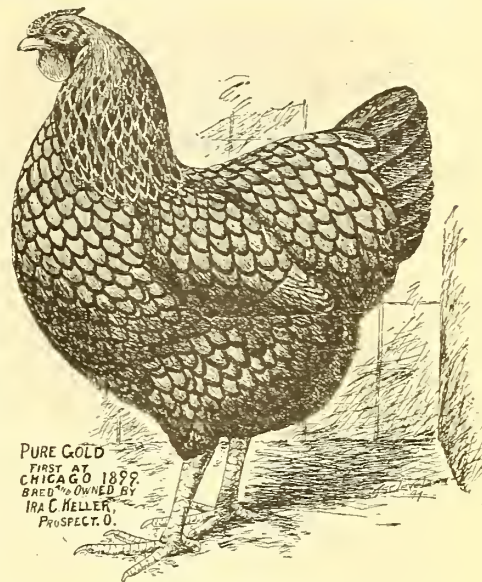
successful care of chicks, by both natural and artificial means, gathered from the methods of all the most successful breeders, including the methods of feeding employed by prominent poultrymen, in detail, and much practical information and good reading of more than the usual value. It is well printed on good paper, neatly bound, and well worth the price asked.

A CHICAGO WINNER.

We publish herewith a cut of Ira C. Keller's winning Golden Wyandotte pullet at Chicago. This bird is not only a winner in the open classes, but also won the special for the best Golden in the show. Mr. Keller is an advertiser in *THE FEATHER*, and those desiring eggs from these birds should write him at Prospect, Ohio.

SEND FOR IT.

We are in receipt of a pretty, concise little booklet describing the poultry which James Q. Myers, Oaks, Pa., is breeding. Mr. Myers breeds Light Brahmas, White Wyandottes, Buff Plymouth Rocks, and Barred Plymouth Rocks. His ad is in this number, and those desiring eggs for hatching or birds for breeding should write him for a copy of the booklet.



First-Prize Golden Wyandotte Pullet at Chicago, 1899. Bred and Owned by Ira C. Keller, Prospect, O.



One of last season's pullets that with seven sisters and a mother, all equally as good, constitutes one of C. H. Welles' breeding-yards.

price and quality considered do not think stock can be duplicated." It would well repay our readers interested in this variety to write Mr. Welles for his illustrated circular, describing his birds and containing many unsolicited testimonials.

"LITTLE CHICKS."

The new book, "Little Chicks," edited by Michael K. Boyer, and published by the Excelsior Wire & Poultry Supply Co., W. V. Russ, proprietor, New York City, is the first work, we believe, devoted to the care of little chicks. It is a valuable treatise giving hints for the suc-

CYPHERS INCUBATOR CATALOGUE FOR 1902

All who have seen a copy of the magnificent catalogue issued a year ago by the Cyphers Incubator Company will be interested to learn that this company's catalogue for 1902 is now ready for mailing and is a distinct improvement over their great book of last year.

This new and complete catalogue consists of 196 pages and cover, is 8x11 inches in size and weighs over one pound. It contains a complete description of the Cyphers patent-diaphragm, non-moisture, self-ventilating incubators, with fine color-plate reproductions of all sizes of the Cyphers incubators. It contains

also an illustrated description of the Cyphers apartment brooders, and the full line of poultry appliances manufactured by this company. In it will be found beautiful half-tone pictures of over 200 of the largest and best-known poultry plants of America, Canada, and Europe where the Cyphers incubators are in use.

The Cyphers Incubator Company is now completely installed in its great factory at Buffalo, N. Y. The company also has offices and sales-rooms in Chicago, Boston and New York City, and is, in a position, therefore, to serve customers to advantage in all parts of the country at a saving of time and money in shipping by freight.

All who are interested in the latest developments in incubator and brooder manufacture should secure a copy of the Cyphers Incubator Company's complete catalogue for 1902. See advertisement elsewhere in this paper.

NEW ENGLAND PLYMOUTH ROCK CLUB.

The annual meeting of the New England Plymouth Rock Club was held January 16, and the following officers elected for the ensuing year: President, A. C. Hawkins; vice-presidents, Parke G. Dingley, F. E. Colby, N. L. Divoll, C. I. Nesmith, D. J. Lambert, A. A. Bailey. Secretary-treasurer, W. B. Atherton. Board of Directors, H. B. May, W. E. Bright, W. B. Davis, E. H. George, G. T. Nash and Geo. H. Pollard. It was voted to request that the Plymouth Rock classes be scored, and that specials be offered at shows throughout New England to be decided upon by the Board of Directors. Breeders of all varieties of Plymouth Rocks throughout New England are invited to join the Club. The fee is \$2.

W. B. ATHERTON, Secretary.

TRANSFER OF STOCK.

Kensington, Md., Feb. 24, 1902.

This is to certify that I have this day sold to E. L. Barclay, of Washington, D. C., proprietor of the Ideal Rabbitry, my entire stock consisting of forty head of Black Belgian Hares, including all my prize-winners at New York and Washington.

Signed,
CORNELIUS ECKHARDT,
Prop. Kensington Haretry.

FINELY-MATED YARDS.

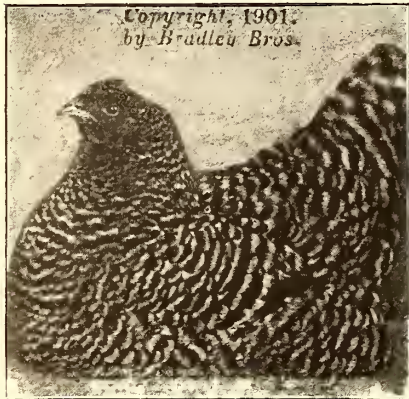
The Berwyn Poultry Association, Berwyn, Md., have mated up in their yards for this season the following winning females: White Wyandottes Yards, fourth hen and third and fourth pullets at Laurel; first and second pullets at Rockville; first pullet at York; first and fifth hens and fifth pullet at Hagerstown; first hen, first pullet, and four pullets in first pen at Washington.

Light Brahma Yards: First pullet, and four females in second pen at Laurel; first and second pullets at Rockville; fourth hen, third and fourth pullets, four pullets in second pen at Hamilton, 1900; second hen, first pullet, and pullets in second pen at Rockville; second hen at York, Pa., and third pullet at Washington, D. C., 1901.

White Plymouth Rock Yards: First, second, and third pullets at Laurel; fourth hen at Hagerstown; second and third pullets and first hen at Hamilton, Va., 1900; second hen and hens in first pen at Rockville; fourth hen, Washington, D. C., 1901.

Buff Orpington Yards: First and second pullets, first-pen females at Laurel, 1900; first hen and hens in first pen at Rockville; first hen, third pullet, and four pullets in first pen at Washington, D. C.

Single Comb Brown Leghorn Yards: Second pullet at Hagerstown, '99; first, second, and third pullets and two of the pullets in first pen at Laurel; first and second hens, first and second pullets at Rockville; third pullet at Hagerstown;



One of the "Lee Belle" hens, a National First Winner bred and raised by Bradley Bros.

second and third pullets, second and third hens, and females in first pen at Hamilton, 1900; four pullets in first pen, first and second hens, and first and third pullets at Rockville; first hen at York, Pa.; second pullet, and fifth hen at Washington, D. C., 1901.

Rhode Island Red Yards: First and second pullets at Rockville; first hen and first pullet at Hagerstown; first hen and second pullet at Washington, D. C.

Buff Cochon Yards: Second and third hens, first and second pullets at Rockville; third hen, third pullet, and four pullets in first pen at Washington, D. C.

Buff Leghorn Yard will contain ten very fine, even-colored Buff females mated to a grand colored male bird, which will produce some fine stock, also will contain our winning pullets at Hagerstown and Rockville, Md.

S. C. Black Minorca Yard will contain third hen and fourth pullet at Hagerstown; fifth hen and first cock at Washington, D. C., with eight other fine breeding females.

They write us that the above yards will be headed by winning males as far as practicable, as they have a long list of winning males to draw from, of each variety, although sometimes they prefer other than birds they have shown for breeders. They bred all the above winners and sell eggs from the same yards they use for their own hatching. They guarantee satisfaction. See their new ad and write them and be sure you mention THE FEATHER.

TWO SEASONABLE LINES.

Doubtless all of our readers are familiar in a general way with the splendid line of poultry supplies advertised by the Harvey Seed Co., of Buffalo, N. Y., and without question a great many of these deal more or less extensively with this concern every year. This must be so because the various lines handled by them are all first class and customers have learned to depend on the quality and reliability of what they order, by reason of the splendid reputation of the house. There is no space here, nor is there the need of our entering into a detailed description of their line. We are, however, glad to call attention to their new catalogue and to urge any reader who is buying poultry supplies to write them for one, which they send free on request. Many breeders have found that it is more convenient to deal with one house for all their supplies, and on this plan we know the Harvey Seed Co. will give entire satisfaction.

It gives us pleasure, also, to notice at this season of the year their splendid line of vegetable, field, and flower seeds, on which they issue a separate catalogue. While we have seen larger seed catalogues than Harvey's we can not see that it lacks completeness in any way. It is well printed and illustrated



A "Lee Belle" pullet bred by Bradley Bros.

and seems to contain everything in the line of standard seeds, and such other goods as are embraced in a first-class line of this kind. In writing them, ask for both catalogues and say you saw their ad in THE FEATHER.

SPECIAL PRICES.

The Pequonnock Poultry Yards, Bridgeport, Conn., are making a special price on eggs for this season, and are meeting with great success. Mr. Selt-sam says he only wants a trial order, which will insure him a firm and steady customer. See his ad in classified columns.

TRANSFER OF STOCK.

Quaker Hill, Conn.

This is to certify that I have sold and shipped to Mr. A. G. Lockwood of Bristol, England, my Buff Rock cockerel, first at Bristol and third at Stamford, Conn.; and third pullet at Bristol.—P. W. NOYES.

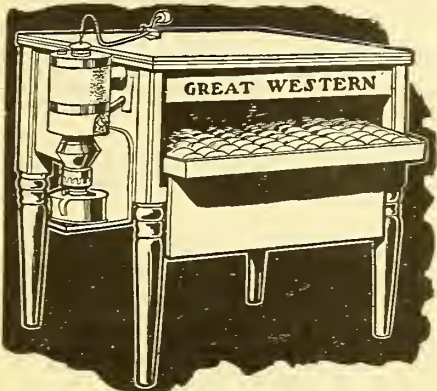


Valley Farm, Slinsbury, Ct., ships eggs that will hatch well.

Gold Medal Diploma awarded the Cyphers Incubator Co., on its Incubators and Brooders at the Pan-American Exposition, October, 1901.

WELL LOCATED.

Among several new large advertisers with us this season is the Great Western Incubator Co., of Kansas City, Mo. Any one who has watched the wonderful development of the poultry business during recent years, has noticed that there has been a most remarkable growth in what Eastern people call the "South-west". It is only natural, therefore, that a strong concern should be organized at Kansas City to make and sell incubators. We are glad to call the attention of our readers to the "Great Western" Incubator, for it is a splendid hatcher, is not an experiment, but has had the most thorough and exacting tests so that buyers are taking no risk whatever. We have investigated both the machine and the people making it, and can assure our subscribers that they are both deserving of confidence. Any



claims made by the Great Western Incubator Company can be depended upon. Their catalogue, which has a very striking and original cover, is devoted to a plain and straightforward statement of their machine and is singularly free from much of the extravagant language used by some catalogue builders. Every point about the construction of the Great Western seems to be as good as could be. The best lumber is used, carefully worked, and well put together. The system of heating and ventilation is not only well nigh perfect, but the appliances themselves are made of the most durable materials, so that the whole machine is built for service and will last for years. The prices at which the Great Western is sold give the manufacturers a wide market, and they are shipping them into every state and territory in the Union and to some foreign countries. They are guaranteed absolutely. Write for one of the catalogues and read for yourself all about this splendid incubator. Address, Great Western Incubator Company, Kansas City, Mo., and mention THE FEATHER.

THE UNIVERSAL "VICTOR."

A novel, interesting, and significant parade passed through the streets of Quincy, Illinois, on February 14. The scene is described by a local paper as follows:

"To-day a shipment of twelve hundred of the famous Victor Incubators was started from the huge plant of the George Ertel Company, consigned to the freight departments of the railroads for distribution. The incubators were piled high on more than a score of trucks and a long procession was formed to the Union Station. Following a band, came

a string of heavy trucks, with their weight of incubators appropriately inscribed. The parade passed through the business district and aroused a great deal of civic pride. It was a notable procession and no mistake. The Ertel Company have extensive trade relations with every nook and corner of the habitable globe. This shipment of twelve hundred incubators will reach from the frozen north to the sun-kissed tropics. One hundred of them go to the Winnipeg region and clear up to Hudson's Bay; another hundred to Queensland and Australia; one single order of five hundred machines, many of them to South Africa. They go to South America, to New Zealand, to Europe. They encircle the globe."

The George Ertel Company, Quincy, Illinois, manufacturers of the Victor Incubators and Brooders, and of the Gem Baling Press, feel justly proud of the success of their products, and of the widespread appreciation of their efforts to make them the best in their line. For years they have been unsparing in their efforts to bring the Victor Incubators to the highest standard of perfection, and that they have succeeded in the estimation of the public, the truly world-wide demand for their goods testifies. See their ad in this issue and write them for prices.

TRANSFER OF STOCK.

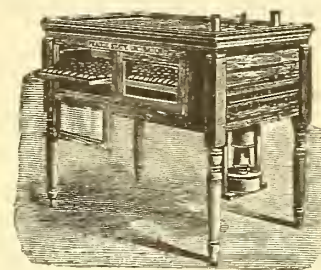
Johnson Creek, N. Y.

This is to certify that I have this day sold to E. L. Barclay, of Washington, D. C., proprietor of The Ideal Rabbitry, my three prize-winning White Belgian Hares known as "Mill Boy", "Lady Washington", and "Beauty".

B. F. BRYANT.

PRAIRIE STATE PROGRESS.

Among the first incubator advertisers of which we had any knowledge was the Prairie State Incubator Company, of Homer City, Pennsylvania. We can very well remember that an incubator was then much of a curiosity, and that the claims of its utility and general good qualities were regarded by many people as being visionary, exorbitant, and, indeed, impossible. We have lived to see a very marked change in the sentiment of the public, so that to-day the incubator is regarded as not only being an adjunct, but a positive necessity for all those people who desire to make the growing of poultry a success. Through all these years the Prairie State Incubator has stood out with special prominence, and has had, by the superiority of its work, perhaps more to do with the changing of this sentiment than any other element. Under these conditions, there could be but one result, and that leads us to complete faith in the claims



of Prairie State people, when they assure us that they have at Homer City, the largest and most complete exclusive incubator factory in the world.

If anything were needed to further strengthen public faith in the Prairie State, it might be found in the fact that in keenest competition in this and other countries it has won 342 premiums, awards, and medals. Those things do not occur to machines of any kind without merit. The \$15,000 catalogue, put out by the Prairie State people this season, is undeniably the finest, most elegant, and comprehensive work of its kind ever issued, devoted to the poultry subject. The Prairie State Incubator Company is selling more machines to-day than at any time in its history, and they are very frank in attributing these improved conditions to their new catalogue. This applies to their foreign trade as well, which is very large and rapidly increasing. Within the past few days they have shipped an order of 209 Prairie State machines to England. They have just booked an order for one thousand machines to be shipped to far-off New Zealand. The "Prairie State" was awarded first premium at the International and Crystal Palace Shows, London, England, this winter. They were also awarded first premium at the Grand International Show, Brussels, in February. Space will not permit of our enlarging upon the merits of these excellent machines. Let our readers write at once for catalogue.

PYRAMID ROOF PAINT

PROTECTIVE RESERVATIVE ROOF PAINT

This is the best time to use and best paint for your Roofs of any kind. Poultry-Houses, Barns, Fences, &c. Will give better satisfaction than higher priced paints. Special prices:

3-gal. keg, \$1;
5-gal. keg, \$1.25;
10-gal. keg, \$2;
30 gals., half barrel, \$5.50;
52-gal. barrels, \$9.

Lowest freight rates to any part of the country. Remit by currency, stamps, or money order.

PYRAMID PAINT CO., Cleveland, O.

THOSE LITTLE CHICKS

You lost through bowel trouble might all have been saved had you had our No. 2 Star Specific to use, and the same is true of the old fowls had you used No. 1. We guarantee these remedies to cure every case of bowel trouble if the bird has strength to swallow. If you want eggs use Star Specific No. 3. Our No. 4 will knock out a cold in short order. No. 5 is for inactive males. No. 6, Indigestion. To successfully raise those little chicks you expect to hatch, then you must have Star Specific No. 7, a perfectly balanced food for little chicks. No. 8, a disinfectant insect-powder.

You can not afford to be without these Specifics. A small investment may save you \$55 worth of birds. Don't wait until you need them before you order, but have them on hand. Circular and price-list for the asking. Don't accept any substitute. Insist on having Star Specifics.

MANUFACTURED ONLY BY

STAR INCUBATOR COMPANY, Bound Brook, N. J.

Valley Farm wins at the big shows, not at county fairs.

Classified Advertisements

Fully prepaid advertisements of twenty-five words or less inserted under this heading at the following rates:

One time.....	\$.50
Three times.....	1.00
Six times.....	2.00
One year.....	3.50

READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 2 cents each for one insertion, or 1½ cent each for each insertion when run three times or more. Initials and figures count as single words.

PLYMOUTH ROCKS

"PARALLEL-BAR" ROCKS. Eggs, \$2 per 13; \$8 per 100. Gardner, Thompson, Bradley, and Montauk stock. Illustrated circular. H. T. BROWN, Box 471 B, White Plains, N. Y.

EXHIBITION BARRED ROCKS. Stock direct from Thompson, Miles, and Gardner. Eggs from my prize-winners, \$2 per 13. E. B. LEEK, Amagansett, L. I., N. Y.

AT ELMIRA, Dec. 1899, and Nov. 1900, on Barred Rocks we won 8 firsts, 7 seconds, and 5 thirds. Choice breeding stock at \$2 up. Eggs, \$2 per setting. KRAFT BROS., Box 536, Hornellsville, N. Y.

BARRED PLYMOUTH ROCKS.—First prize winners four years at the New Jersey Show in hot competition. Eggs from big, vigorous, prize-winning stock with clear, narrow barring, \$2 per 13. A few choice breeders for sale. WM. H. CYPHERS, Crystal Farm, Washington, N. J.

BARRED PLYMOUTH ROCKS Exclusively for 12 years. Great winter layers. Proper shape, size, and color. Old and young stock at fair prices. Satisfaction guaranteed. F. S. WEINHOLD, Denver, Pa.

STANDARD PLYMOUTH ROCKS and Single Comb White Leghorns, \$1 to \$2 each; cockerels, \$2. Eggs in season, 15 for \$1. O. P. TOOMBS, Schenectady, N. Y.

BARRED ROCK EGGS from the prize-winning pens of Leffel and Gibson for sale; also Single Comb Brown Leghorn eggs. Write me for prices. E. P. FRALEY, Herdershot, O.

BARRED ROCKS, E. B. Thompson Strain. My breeding-pens are better than ever, and can furnish eggs for hatching from winners at \$1.50 per 15; \$2.50 per 30. For incubator use, \$5 per 100. Satisfaction always guaranteed. H. E. KIPP, Red-Hook-on-Hudson, N. Y.

BARRED PLYMOUTH ROCKS, Hawkins' and Thompson's strains. Fine exhibition cockerels and pullets at \$2 each; trios, \$5. Eggs, \$1.50 per 15. 20 years a breeder of Barred Rocks. Satisfaction guaranteed.

C. S. JENSEN, Dover, N. J.

BARRED ROCKS, Hawkins' "Royal Blue" strain direct. Eggs, \$1 per 15; \$5 per 100. Bronze Turkeys, 45-lb. tom, 9 eggs, \$2. Catalogue. ELMER GIMLIN, Rosemond, Ill.

B. P. ROCK EGGS, \$1 per 15, or \$2.75 per 45, Latham breeding. M. B. Turkey eggs, \$2 per 12. JOHN B. TRICE, Summitville, Madison Co., Ind.

WELLS' BARRED PLYMOUTH ROCKS.—Five grand yards containing many prize-winners. Male line direct from Bradley Bros. Eggs, \$1 per 13, \$2 per 30. W. J. WELLS, St. Peters, Chester Co., Pa.

H. W. BUNK, Germantown, N. Y. Barred and White Plymouth Rocks. Winners Philadelphia, Johnstown, Poughkeepsie. Choice stock for sale. Eggs, \$2 per 15. Incubator eggs, \$4 per 100.

EGGS FROM EXHIBITION BARRED PLYMOUTH ROCKS, \$2 per 13. Stamp for Catalogue. C. H. HELME, Locust Grove Poultry Yards, Miller Place, Suffolk Co., N. Y.

BARRED ROCKS EXCLUSIVELY.—Bradley Bros' strain. Large, heavy bone, evenly barred. Breeding stock score 91½ to 92½. Eggs from best pens, \$1.50 per 15, \$2.50 per 30, \$3 per 45, \$6 per 100. J. L. BARBER, Kirkman, Iowa.

FARM-RAISED BARRED P. ROCKS Exclusively for 28 years. The kind you want; very handsomely barred; yellow legs; large size; a great laying strain. Eggs for sale, \$2 per 15; after Feb. 1st, incubator eggs \$4 per 100. EDWIN JOHNSON, Dolington, Buck Co., Pa.

BUFF ROCKS EXCLUSIVELY, not R. I. Reds. Line bred 8 years; heavy layers. Eggs, \$1 per 13; \$3 per 50. A. A. GROFF, Route 2, Telford, Pa.

WHITE ROCKS.—Winners wherever shown. Write your wants to ED. L. DOUGLASS, 453 W. Center St., Akron, O. Eggs and stock in season and guaranteed. Mention this paper.

\$1 PER SETTING.—Barred Plymouth Rocks. Leffel's strain. Blue-black barring. Standard shape and size. White Wyandotte cockerels, \$1.50 each. DIAMOND SPRING POULTRY FARM, Denville, N. J.

BUFF AND BARRED ROCKS.—Fine color. Good shape. Superior layers. Suit both farmer and fancier. Eggs \$1 a setting. F. L. ARNOLD, Avoca, N. Y.

THE BEST always the cheapest.—Barred, Buff and White Plymouth Rock eggs \$1 per 15. Fresh and fertile. G. M. RAFFENSPERGER, Route 8, Gettysburg, Pa.

BUFF PLYMOUTH ROCKS.—I have as good stock as any breeder in the country. My show record proves it. Eggs for hatching, \$1 per setting; \$1.75 for 2 settings. JAMES H. CORWITH, Water Mill, Suffolk Co., N. Y.

WHITE PLYMOUTH ROCKS. First prize State Poultry Show, 1901. Eggs reasonable; circulars free. I. SCHOTT, New Pittsburgh, Ohio.

WHITE AND BUFF ROCKS, S. C. W. LEHORS. Choice matings. Eggs by 100 a specialty. Descriptive catalogue for stamp. KURTZ & SONS, Sanatoga, Pa.

BARRED PLYMOUTH ROCK EGGS for sale. From pure-bred stock. The cocks in my pens are from Bradley Bros. THE CREST, Red Hill, Va.

WHITE PLYMOUTH ROCKS, \$3 to \$5 per trio; \$5 to \$10 per pen. Sold on approval. Eggs from choice pens, \$2 per 15; \$3 per 30. C. M. BARTLETT, Agnewville, Va.

FINE BUFF PLYMOUTH ROCKS.—Hawkins' strain. The kind that win the prizes and lay the eggs. A fine booklet free. J. G. STAUFFER, Palmyra, Pa.

EXHIBITION BUFF ROCKS that are buff to the skin. Not a black feather in a bird in my pens. Eggs, \$2 per setting. Satisfaction guaranteed. D. C. SPIENBURGH, Hunter, N. Y.

BARRED PLYMOUTH ROCKS from E. B. Thompson's, Bradley Bros', and C. H. Latham's noted strains. Eggs for sale, \$1 per 13. WALTER A. COLLINS, Penn's Manor, Pa.

BUY CHICKS, NOT EGGS. Utility strain White Plymouth Rocks, \$3 per doz.; \$20 per 100. EDWIN J. MICHENER, Carversville, Bucks Co., Pa.

BARRED ROCKS, Gardner's, Hawkins', and Thompson's, strains. White Rocks, Hawkins' strain. Eggs, \$1 per 15. Circulars free. LYON & SONS, Box 3, Spring Hill, Pa.

GAMBRILL'S BARRED ROCK COCKERELS at \$2 each, are bred from prize-winners and are bargains. Satisfaction guaranteed or your money back. J. H. GAMBRILL, JR., Frederick, Md.

BUFF PLYMOUTH ROCKS (Nugget strain). Eggs from large, vigorous, heavy layers, fine-colored stock, \$1 per 15. Guarantee 10 chicks. ARTHUR TAYLOR, Washington, N. J.

INCUBATOR EGGS, \$4 per 100; from fine strain of noted Barred Plymouth Rock layers, mated to Royal Blue Barred cockerels (Hawkins' strain). Address, MRS. A. R. NORTON, Old Homestead Poultry Yards, Seiden, L. I.

FINE LAYING STRAINS.—Barred Plymouth Rocks, White Wyandottes, Light Brahmas, Black Minorcas. Utility and standard. Farm range. Eggs for setting. WOODSTOCK POULTRY FARM, Sudbury, Mass.

WHITE PLYMOUTH ROCKS (Hawkins' strain). Bred for utility and beauty. Eggs, \$1 per 13; \$1.80 per 26. Poultry Supplies cheap. Circular. EARL COOK, Pratt's Hollow, N. Y.

HOME OF BUFF AND WHITE ROCKS. Eggs, 20—10 each—\$2. Games—5 strains, 5 birds, \$5.

EXPERIMENTAL AND EXCHANGE FARM, McColi, South Carolina.

BUFF PLYMOUTH ROCKS.—Winners of 1st cockerel, 1st pullet, at the Harrisburg Show. Eggs, \$1 per 13. R. M. TRATE, Pottstown, Pa.

BARRED ROCK EGGS that will hatch. From select matings only. \$1.50 per 13. J. A. SCHEFFLEY, Parkerford, Penn'a.

BARRED PLYMOUTH ROCKS Exclusively. Best strains, choice selected stock. Eggs, \$1 per 13. JACOB THOMAS, P. O. Box 325, Williamsport, Pa.

WHITE PLYMOUTH ROCKS ONLY: best strains, splendid layers. Eggs, \$1.50 per 15. Guaranteed. Also, Homing Pigeons from 500-mile stock. PAUL SPRINGER, Bridgeton, N. J.

BARRED ROCKS EXCLUSIVELY (Ringlet strain). Bred for utility and beauty. Eggs from choice matings, \$1.50 per 15. Satisfaction guaranteed. N. A. GALLANT, Plattsburgh, N. Y.

BUFF ROCKS from prize-winners. Farm raised, pure Burdick strain, great layers. Eggs, \$1 per setting. Cockerels for sale. L. W. CLELLAND, Box 7, Barrackville, W. Va.

TRASK'S PLYMOUTH ROCK FARM.—Barred, White, and Buff Plymouth Rocks. Winners at the late Boston Show. Eggs, \$2; 3 settings, \$5. Some fine breeders. E. F. TRASK, Beverly, Mass.

MRS. K. E. SPEAR, Box A, Conewango, N. Y., will sell a limited number of eggs for hatching from a \$40 pen Fishel's White Plymouth Rocks, score, 96, 95½, 95, 94½, 94½, \$1.50 per 15. New Dandy bone cutter cheap.

BARRED PLYMOUTH ROCKS Exclusively. Standard shape, size, and color. A limited number for sale. Will book orders for eggs at \$2 per 15. A. H. BUTTERFIELD, Schuylerville, N. Y.

BUFF ROCKS ONLY, Vernon K. Dayhoff's strain. Good in shape, size, and color, but not solid. Eggs, \$1.25 per 13. B. H. KNEPPER, Clearspring, Md.

WHITE ROCKS.—Fishel strain. 3 grand pens of pure white prize-winners. Grand shape, legs, and eyes. Stock for sale. Eggs, \$3 setting; 2 for \$5. FAIRLAWN POULTRY YARDS, L. S. & H. B. Wisner, Props., Middletown, N. Y.

BUFF ROCKS, Nugget strain, Eggs, \$1 per 13. 8 large Nugget cockerels, \$1.50 each. Do not exhibit, but my birds are winning for others. A. J. HANCE, Boothwyn, Pa.

MEADOW FARM, Moreland, N. Y., won on White Rocks and White Leghorns at Elmira, December, 1901, twelve ribbons with twelve entries: Rochester, January, 1902, six entries White Rocks, won four regular, four special prizes, 123 birds competing. Three entries White Leghorns, first and second pullets, three specials, 40 birds competing. Eggs that hatch, \$1.50 per 15.

WHITE PLYMOUTH ROCKS exclusively. Pen headed by fine, big, ten-dollar cockerel direct from Fishel. Eggs, \$1.50 per 15. OAK HILL FARM, Winchester, Va.

BARRED PLYMOUTH ROCKS exclusively. Eggs from fine farm-raised stock (leading strains) \$1.50 per setting; also eggs from Pekin Ducks, choice stock, \$1 per 11. A. B. TERRY, Amagansett, L. I., N. Y.

BARRED AND WHITE ROCK EGGS for hatching, \$2 per 15. W. R. cockerels, \$1 to \$5. HAZLERUN POULTRY YARDS, Winthrop Heights, D. C.

H. I. MACKEY, Gilboa, New York. Eggs for hatching. Rocks, snow-white, yellow legs, fine layers. One pen, one Fishel's best cockerels. Other pens as good. Write.

BARGAINS: One White Plymouth cock, Fishel bird direct. Also some fine cockerels of the above strain. JAS. M. SECORD, Searsburg, Schuylers Co., N. Y.

ROOKER'S BUFF ROCKS. Winners at Pan-American and other leading shows. Choice breeders for sale. Eggs from winners, \$2; three settings, \$5. Booklet free. J. E. ROOKER, Station 2, Washington, N. J.

WHITE PLYMOUTH ROCKS EXCLUSIVELY. Nine years' careful breeding for business qualities and fancy points. Eggs, \$1 per 15. L. S. MASON, Boothwyn, Pa.

J. R. PIPER, JR., 10 Market St., Morristown, N. J. Prize winning Light Brahmas at leading shows. Fine Barred Rocks. Egg orders booked now. Buyers write.

200 FINE BUFF ROCK cockerels and pullets at a bargain. Farm raised; spring running water. Write now. SPRING RUN POULTRY FARM, Washington, N. J.

LARGE WHITE PLYMOUTH ROCKS, Hawkins Kulp strain. Heavy layers; farm raised. Ideal trap-nests used. Eggs, \$1 per 15; \$5 per 100. Stock reasonable. FRANK HARVEY, Box 9, Laundowne, Md.

WHITE ROCKS. Winners at Boston for three years. Silver cup at South Framingham. Eggs, \$2 per 13. Send for circular. **STAFFORD BROS.**, Fall River, Mass.

BARRED ROCKS, WHITE WYANDOTTES. Stylish, vigorous, and thoroughly up-to-date. All standard weight and over. Settings, \$2. **JOHN C. HAIG**, Owego, N. Y.

BARRED PLYMOUTH ROCKS EXCLUSIVELY. Choice, vigorous stock, highest quality. Eggs for hatching, \$1 for 15; \$1.75 for 30; \$4 for 100. **B. H. ACKLEY**, Spring Hill, Pa.

W. J. WIBERLEY, Peekskill, N. Y., breeds high-class Buff P. Rocks, W. Wyandottes, R. C. Brown Leghorns. Eggs, \$2 per 15. Pekin Duck eggs, \$1 per 12. Fowls have grass range.

WHITE ROCKS (Fishel). Eggs from two grand yards, \$2 per setting; two settings, \$3. Healthy, vigorous stock. **TWIN OAKS POULTRY YARDS**, Riverdale, Md.

EGGS FROM SELECTED FIRST-PRIZE winners—White and Barred Rock, Black Minorca, White Wyandotte, and Black Langshans, 1 setting, \$3; 2 settings, \$5. Liberal discount for quantity. Choice cockerels, \$3 each. Cash with orders. **KENTON POULTRY FARM**, E. P. Magruder, Propr., Glendale, Md.

BARRED PLYMOUTH ROCKS EXCLUSIVELY, Bradley Strain. Eggs from yard No. 1, \$2 per 15; No. 2, \$1.50; per 100, \$5. **A. J. ARCHER**, Bashan, O.

BUFF ROCKS (Burdick's Nuggets direct). White Rocks (Fishers Island Farm). White Wyandottes (Mack). Eggs, \$1.50 per setting, or any three settings, \$3. Stock farm bred. **H. E. CURTIS**, Rutland, Vt.

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GAMBRILL'S S. C. WHITE LEGHORNS, 1st and 2d cocks, 2d hen, 2d cockerel, 1st and 2d pullets at Frederick, Md., 1901. Cockerels, \$1 and \$2 each. **J. H. GAMBRILL, JR.**, Frederick, Md.

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BRIGHT'S (GROVE HILL) STRAIN.—Single Comb Brown Leghorns. Winners at Norfolk, Va., 1900 and 1901. Prices reasonable. Satisfaction guaranteed. Eggs, \$2 per setting. Address **JAS. A. DAVIS**, Portsmouth, Va.

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\$1 PER SETTING—SINGLE COMB BROWN Leghorns. Bright's strain. Fine Leghorn cockerels \$1.50. Also White Wyandotte cockerels \$1.50. **DIAMOND SPRING POULTRY FARM**, Denville, N. J.

SILVER SPRAY POULTRY FARM.—Breeder of S. C. White Leghorns. Eggs \$2 per 15; \$3.50 per 30. Satisfaction guaranteed. **JOHN M. YERGER**, Gilbertsville, Pa.

LARGE, VIGOROUS, EXTRA LAYERS. Single Comb White Leghorns (Wyckoff strain). Eggs from prize-winning matings, \$1 per 15; \$3 per 50. **MRS. ARTHUR W. NUNAN**, Cape Porpoise, Maine.

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LADE'S S. C. White Leghorns. Large size, pure white, heavy laying strain. Eggs, \$1.50 per 15. Satisfaction guaranteed. I pay express charges. **Worcester, N. Y.**

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S. C. BROWN LEGHORNS, (Wittman-Bright). The brown that's brown. Home show, Jan. 9-10, 1st cockerel; 1st, 2d, 3d, 4th pullets (by Brown). Eggs from selected pens, \$1 per 13. **G. F. LIPPOLD**, Druggist, Cumberland, Md.

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ROSE COMB BROWN LEGHORNS Exclusively. Challenge the world to beat for show or laying qualities. Eggs, \$1 per 15. Satisfaction guaranteed. **JOHN HOWE**, Worcester, N. Y.

CHOICE EGGS FOR HATCHING from pure-bred Single Comb White Leghorns, Buff Plymouth Rocks, and Bronze Turkeys. If interested write. **T. D. SCHOFIELD**, Woodstock, N. H.

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SINGLE COMB WHITE LEGHORNS. Eggs, \$1 per 15; \$1.75 per 30; \$5 per 100. Stock for sale. Write for prices. **CLYDE FRIESE**, Hagerstown, Md.

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SINGLE COMB WHITE LEGHORNS. Prize-winners at Sanatoga, Reading, and Harrisburg. Eggs, \$1.50 per 13; \$3 per 30; \$4 per 50. **H. F. SCHEFFY, JR.**, Sanatoga, Pa.

EGGS from my best matings of Buff Leghorns and Buff P. Rocks at \$2 per setting. Winner at Hagerstown, Philadelphia, and Pan-American this last season. Stock for sale. **HOWARD BROWN**, Box 524, Coatesville, Pa.

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SINGLE COMB BROWN LEGHORNS, Kulp-Dorsey strain. Heavy layers; farm raised. Ideal trap-nests used. Eggs, \$1 per 15; \$4 per 100. Stock very reasonable. **FRANK HARVEY**, Box 9, Lansdowne, Md.

EGGS, \$1 per 13. S. C. White and Brown Leghorns, White Wyandottes. We won at last Orange Show, 1st hen, 3d and 4th cocks, White Leghorns; 1st hen, Brown. Satisfaction guaranteed. **EATON BROS.**, Lyons Farms, N. J.

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WYANDOTTES

WHERE DO YOU BUY YOUR Stay-White Wyandotte eggs for hatching? Why, at Shoemaker's, of course! He guarantees satisfaction, and ships you eggs that test 75 to 90 per cent fertile. He answers your correspondence promptly. He is breeding from extra fine pens this season. Eggs, \$2 per 15; eggs for incubators, \$5 per 100. W. E. SHOEMAKER, Laceyville, Pa.

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PARTRIDGE WYANDOTTE EGGS from pure Cornell-Brackenbury stock. Thirty eggs for five dollars, or fifteen for three dollars. WM. M. CONNOR, Weston, N. J.

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GAMBRILL'S WHITE WYANDOTTES.—1st cock, 1st and 2d hens, 1st and 2d cockerels, 1st and 2d pullets at Frederick, Md., 1901. (Duston strain) cockerels, \$2 to \$3 each. Satisfaction guaranteed. J. H. GAMBRILL, JR., Frederick, Md.

WHITE WYANDOTTES.—191-egg strain Eggs for hatching, \$2 per 50; \$4 per 100. Satisfaction guaranteed. E. O. SCHAAF, R. D. 3, Sewell, N. J.

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BUFF WYANDOTTES.—I won first and second premiums on young and first on pen of old at the Suffolk County Fair, 1901. Eggs for hatching \$1 per setting. JAMES H. CORWITH, Water Mill, Suffolk Co., N. Y.

WHITE WYANDOTTE EGGS.—Birds have won fourth cockerel, sixth cock, Pan-American; fourth hen, special for best shaped cockerel, Philadelphia, Pa.; fourth cockerel, fourth cock, New York, in the very hottest competition known. My stock is strong and vigorous and white. Eggs, one set, \$2; two sets, \$3.50; three sets, \$4.50. D. LINCOLN ORR, Orr's Mills, N. Y.

PRIZE-WINNING WHITE WYANDOTTES. Finest quality. Unsurpassed for utility. Eggs, \$2 per 13; \$5 per 40. Utility matings, \$3 per 40. W. P. WESTON, Hancock, N. H.

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PARTRIDGE WYANDOTTE EGGS from Madison Square Garden prize-winners and all the big shows, \$3 per 15; \$5 per 26. HAIGHT & KRETZLER, Successors to Theo. Haight, Jr., 157 Springfield Ave., Rutherford, N. J.

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\$5 WHITE WYANDOTTES.—1st, 2d, 3d, 4th males and females 1899, 1900, 1901. Not shown now. At Rhode Island Poultry Show, the most severe show, harder than New York or Boston, in White Wyandottes. From this stock came the ideal White Wyandotte cockerel shown and won first great Boston Show, 1902. See show account of him. He is the grandest White Wyandotte bird in the world. Castle Farm has been offered, and refused, \$1 each for every egg from his 10 hen mates till July 1st. I have only three cockerels and six pullets for sale. Breeders can build up. C. C. LORING, River Farm, Dedham, Mass.

IF WYANDOTTES you want for show purposes you can win with eggs from my snow-white strain. They have the perfect Wyandotte shape and are great layers. Eggs, \$1.50 per 13; \$4 per 40; \$8 per 100. CHARLES MCGEE, JR., Marlboro, Mass.

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BUFF WYANDOTTES. Eggs from the strain that wins most of the New York and Boston prizes. None better. Big, clean buff birds. Great layers of large, dark eggs, \$1 per 15. GEO. T. BERRICKER, R. D. 3, Pottstown, Pa.

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BLACK MINORCA EGGS for hatching, \$1.50 and \$3 per 15. Write for mating-list which gives description of breeding-yards. Also breeder of Barred Plymouth Rocks and White Wyandottes. GEO. E. HAYES, Prattsburgh, Steuben Co., N. Y.

H. B. GREGORY & SON, breeders of Black Minorcas, Black Tail Japanese Bantams, Black Cochins Bantams, and Golden Sebright Bantams. Don't overlook this point. We sell eggs for hatching from same pens as we breed from ourselves. All orders will be promptly acknowledged and filled in rotation. We strictly guarantee satisfaction to all customers. Stock and eggs in season. Mention this paper. Akron, Ohio.

GAMBRILL'S S. C. BLACK MINORCAS, 2d cock, 2d hen, 1st and 2d cockerels, 1st and 2d pullets at Frederick, Md., 1901. Cockerels, \$2 to \$3 each; trios, \$5 each. J. H. GAMBRILL, JR., Frederick, Md.

MINORCAS.—Blacks, Pan-American winners; 8 entries, 8 premiums, including two firsts. Prolific layers of largest white eggs. Catalogue. MRS. GEO. MONROE, Box D, Dryden, N. Y.

THE ONLY "BUFF MINORCAS" in the U. S. We defy a duplicate of this handsome breed in the U. S. this year. Imported from England; finest of all layers; everybody wants them; also 60 others varieties of chickens. Also Pigeons, Pekin Ducks, and Belgian Hares. Eggs of the following, now ready for delivery, all thoroughbred stock: "Buff Minorca" (sole owner), Buff Cochins, Buff Rocks, Buff Leghorns, S. C. White Leghorns, White Wyandottes, Barred Rocks, and Rhode Island Red. Send orders early. Catalogue free. **BUFF POULTRY FARM**, R. D. No. 1, Norristown, Pa. Address all orders and Communications to—O. E. STRAUSSER, Prop., 3100 Berks St., Phila., Pa.

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BLACK MINORCAS (imported strains), 300 birds for sale, both old and young. Eggs, \$2 per 13. **HAZELBROOK POULTRY YARDS**, Germantown, Philadelphia, Pa.

EXHIBITION BLACK MINORCA COCKERELS for sale at \$3 each. Twenty left. All large, with color and shape to win at any show. Also trios and breeding-pens. Write **GEO. E. HAYES**, Prattsburgh, Stenben Co., N. Y.

BLACK MINORCAS and Buff Plymouth Rocks, fine specimens. Money has been no object in placing these pens with the high standard. None score less than 90. Eggs, \$1.50 per 13. **C. L. PENNYL**, Bloomsbury, Pa.

MY BLACK AND WHITE MINORCAS are grand size, shape and color, are from Northup and Jerome stock. Eggs \$2 a setting. **H. M. CONLEY**, Athens, N. Y.

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RHODE ISLAND REDS that are winners and just what you need. Yearling stock and cockerels for sale. Eggs, \$2 per setting; three setting, \$5. **W. P. WESTON**, Hancock, N. H.

MY REDS HAVE WON FIRSTS AT FARMINGTON, Hartford, Danbury, Wallingford, New York second. Eggs \$2 per 15. Rose and Single Combs. Rural 1. **HARRY L. BARTHOLOMEW**, Wallingford, Conn.

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SIX BEAUTIFUL BUFF COCHINS, FIVE pullets and cockerel. The very finest specimens, 4th and 5th-prize pullets at Hagerstown, and 5th-prize pullet at Philadelphia this year, included. Must sell. Best offer takes the six. **A. LEAMY**, 14 N. Charles St., Baltimore, Md.

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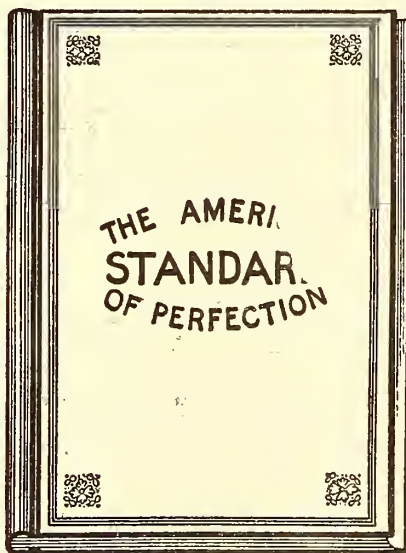
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List of Color Pictures.

1. Light Brahmas. 2. Trio White Wyandottes. 3. Pair White Wyandottes. 4. White Wyandotte Male. 5. White Wyandotte Female. 6. Buff Wyandotte Male. 7. Buff Wyandotte Female. 8. Silver Laced Wyandotte Male. 9. Silver Laced Wyandotte Female. 10. Golden Laced Wyandotte Male. 11. Golden Laced Wyandotte Female. 12. Partridge Wyandotte Male. 13. Partridge Wyandotte Female. 14. Barred Plymouth Rock Male. 15. Barred Plymouth Rock Female. 16. Buff Plymouth Rock Male. 17. Buff Plymouth Rock Female. 18. White Plymouth Rock Male. 19. White Plymouth Rock Female. 20. Black Minorca Male. 21. Black Minorca Female. 22. Black Langshan Male.

Half-tone Pictures.

23. Barred Plymouth Rock Male. 24. Pair Black Langshans. 25. Pair Buff Leghorns. 26. S. C. Brown Leghorn Male. 27. Pair Silver Spangled Hamburgs. 28. Pair White Crested Black Polish. 29. Pair Barred Plymouth Rocks. 30. Buff Cochins Female.

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BROWN Leghorns WHITE

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LOOS'

White Plymouth Rocks.

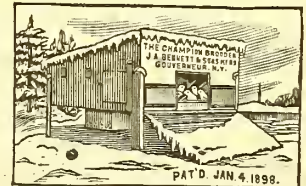
Stock birds of large size, having fine color, and of excellent strain.

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The \$5 Champion Brooder

Is the only brooder in the world which can be operated out of doors in zero weather equally as well as indoors. There is but one perfect brooder and that is the \$5 Champion. Facts are stubborn things so we submit the following:

"OVERLOOK," Montpelier, Vt., February 14, 1901.

J. A. BENNETT & SONS, Gouverneur, N. Y.

GENTLEMEN: My first flock of White Plymouth Rock chicks for 1900, hatched March 10th, and two or three days later they were placed in a "\$5 Champion." Almost daily in the first week of their out-of-door life the mercury at sunrise ranged from zero to seventeen below, and during one night nearly a foot of snow fell. The most severe test was a ten-below-zero night, with the wind blowing a gale at my hillside home. The thermometer in the brooder registered 80 when I raised the cover next morning.

The upper cut (an April 1st picture) shows two of your brooders on the lawn; the middle picture is a nearer view, and the little flock dimly seen in the brooder at the left, has in it every bird of the 4th prize exhibition-yard at the great Boston Show, 1901.

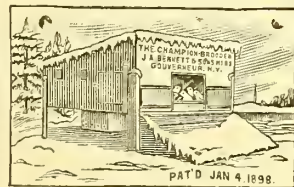
The lower picture shows the snow as it stood behind this brooder after the March storms. My little daughter is looking down upon the "early birds" struggling over a ground-bone substitute for the proverbial worm.

Comment upon the value of your wooden mother is hardly necessary. I shall confidently consign a flock of my best chicks, (if any hatch) to its tender mercies, in the same location, early next month. Very truly,

HERMON D. HOPKINS.

If you are in want of the best brooder made enclose stamp for our handsome catalogue and guide. 100-chick size, \$5. Size 3x3 feet.

L. W. Bennett, Successor to J. A. Bennett & Son, Gouverneur, N. Y.



WE BREED

Buff Leghorns, Buff Cochins, Buff Orpingtons,
S. C. Brown Leghorns, Mottled Anconas,
White Plymouth Rocks, White
Wyandottes, R. I. Reds, S. C.
W. Leghorns, Blk. Minorcas, and Lt. Brahmas.

**BERWYN
POULTRY ASS'N.**

J. FRED. KEEFAUVER, Sec'y,
Box 215, Berwyn, Md.

WE WON

57 Firsts, 48 Seconds, 49 Minor Prizes, and 16 Specials, in 1900 and 1901, at Hagerstown, Rockville, Hamilton, York, Washington.
Eggs, \$2 for 15; \$5 for 45.
For stock or other information address the Sec'y.

**WE MA
WOOD STOCK**

W. E. Mack,
West
Woodstock, Vt.
Well-Bred
White
Wyandottes
Winners.
Write for
Wants.

**EVERGREEN FARM,
White Wyandottes,****"Triumph Strain."**

Fifteen years of careful breeding has produced a strain of fowls unequalled in practical qualities, and winners of the highest honors in the show-room. In Boston Show, 1901, I had only 4 birds in a hot class of 201, won 2d on cockerel, 3d on hen, 6th on cock, and two specials, including special for best-shaped cockerel. I breed and raise the birds I handle and exhibit. My breeding-yards for 1901 are composed of very choice birds; among them is the noted Stay-White cock, winner of 4th and special for whitest male, Boston, '99, 4th New York, '00, and 2d St. Louis, '01. Also "Triumph," winner of 2d and special for best-shaped cockerel, Boston, '01. Stock and eggs for sale.

**20 HENS**

working steadily at one time cannot hatch so many chicks as one of our 200-egg size

Successful Incubators.

You'll know exactly why when you read a copy of our 158-page Catalogue. We mail it for 6 cents. Ask for Catalogue No. 3. Catalogues in 5 different languages. Address nearest office. Des Moines Incubator Co., Des Moines, Ia. Buffalo, N.Y.

INCUBATORS ON TRIAL

Catalog of **The Perfected Von Culin** free. Practically perfect. Satisfaction or no pay. Successful result of 25 years' experience. Prices \$7 up. Address **THE W. T. FALCONER MFG. CO.,** Sta. J, Jamestown, N.Y.

1881 1902

Orr's Silver Wyandottes.
Always at the Front.

At the Great Pan-American, Sixty Silvers shown by Ten Competitors. "The finest show of Silvers ever seen." Beaver Hill Farm (T. E. ORR, Prop.) won just one-half of all cash paid on regular premiums.

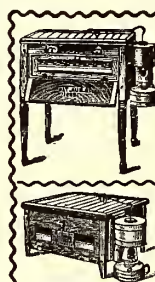
1st and 2d cocks, 1st and 2d hens, 2d pullet, and 2d pen, is not a bad showing. A few breeders for sale, \$3 to \$10 each. Eggs, \$3; 4 settings \$10.

T. E. ORR,
Box 514, Beaver, Pa.

Standard, bred-to-lay S. C. W. Leghorns, S. C. B. Leghorns, Black Minorcas. Choice breeding and exhibition stock, in pairs, trios, or any size pen. Fine selected ck's \$2 and up. Eggs, \$2 per 15; \$8 per 100. S. G. SELOVER, Owaseo, Cay. Co., N. Y.

MY WINNINGS

At Malden, Mass., Dec. 4-7, in strong competition, but strengthen my reputation for breeding a quality of **Barred Plymouth Rocks** which can not be excelled. I won 1st and 2d on cocks; 1st and 2d on cockerels; 1st, 2d, and 3d on pullets; 3d on hen; 1st and 2d on pens. I have some splendid specimens of **Barred Beauties** for breeding stock at \$4 and upwards. Eggs, \$2 per setting; \$8 per 100. Circular free. **J. W. RANDALL,** Prop., Meadowview Poultry Yards, 403 Salem St., Malden, Mass.

**The Sure Hatch
Hatches Sure,**

is the verdict of thousands who use it. Made right and works right. Anyone can run them, because they run themselves. Anyone can own them, because the price is right. Machine and its work guaranteed for 10 years.

Our Little Hatchit Incubator

is a 75 egg machine, made on the same principle as the **Sure Hatch**, same material and construction throughout. After a hatch is over, removes egg tray and the same machine broods the chicks. For fancy's sake or to those raising poultry on a moderate scale the **Little Hatchit** is unequalled. Guaranteed as above. Big catalogue full of photo views and honest poultry information. Sent free. When writing address nearest office.

Sure Hatch Incubator Co., Clay Center, Neb., or Columbus, O.

**First Mark Your Chick**

In keeping a record of your chicks of the different breeds, hatches, strains, etc., the mark must be absolutely individual.

THE Reliable Marker, 35c.

makes mark in small web between toes. Chick can then run with flock until you want him. Leverage makes marking easy. 20th Century Poultry Book tells all about full line of supplies and our 126 yards of thoroughbred stock. Sent for 10 cents. **Reliable Incubator and Brooder Co.,** Box A 5, Quincy, Ill.

**YOUNG CHICKS**

Just hatched from

B. PLYMOUTH ROCKS

and

S. C. WHITE LEGHORNS,

at 8c. apiece. Distance no objection. Send for circular. **JOS. D. WILSON,** Stockton, N. J.

**MY WHITE AND BARRED P.
ROCK EGGS**

Will be sure to please you with results in hatching and size and strength of chicks. \$2 per 13.

JOHN O'NEILL,

EAST HAMPTON, CONN.

**DON'T SET HENS**

the same old way when our new plan beats it 10 times. 100 Egg Hatcher Costs Only \$2. Over 94,000 in use. 10,000 test'ls. 5,000 agents wanted for 1902, either sex. Pleasant work. Big profits. Catalog and 10 Egg Formula FREE if you write today. **Natural Hen Incubator Co.,** B. 9, Columbus, Neb.

Poultry Supplies

in greatest variety and any quantity. We handle everything that tends to make the poultry business pleasant and profitable. **Bone Cutters, Incubators, Crushed Oyster Shells, Grit, Meat Meals, Beef Scraps, Bone, Drinking Fountains, Poultry Netting, Condition Powder, etc.**

CUT CLOVER HAY ready for use—the great winter green food. \$1.75 per 100 lb. sack. Send for illustrated catalogue FREE if you write today. **HARVEY SEED CO.,** 21 Ellicott Street, Buffalo, N. Y.

EGGS**For Hatching.**

My flocks are farm raised and have range on separate farms. You get eggs that will hatch strong chicks. I am shipping eggs to satisfied customers all over America. I can fill your order to your entire satisfaction.

**Buff and Barred Rocks,
Buff Wyandottes,
Golden Wyandottes,
Rose Comb Brown, and
S. C. White Leghorns.**

Eggs shipped safely anywhere—

\$1 per 20; \$3.50 per 100;

\$30 per 1,000.

A. B. KATKAMIER,

MACEDON, N. Y.

BARRED PLYMOUTH ROCKS

THOMPSON'S
"RINGLET" STRAIN.

I won 1st cock and pullet, 3d hen and cockerel, and four special prizes at the Electric City Show. Barred to the skin and all-the-year-around layers. Eggs, 1 setting \$2.50; two settings, \$4.

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1895 Winners Wherever Shown. 1902

Noyes' Buff Rocks win the laurels at every show in the State this season. At Torrington, Hartford, Danbury, Waterbury, Wallingford, Stamford, and Bristol; also Providence, R. I. At Boston, C. on pullet (42 competing), C. on hen (22 competing). Send for circular giving complete awards and full particulars. Eggs from very best pens, \$2 per 15 straight. No seconds. Mention *The Feather*.

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SPECIALIST BREEDER,

QUAKER HILL, CONN.

**NORTHUP'S MINORCAS SINGLE AND
ROSE COMB.**

EGGS GUARANTEED TO HATCH regardless of distance. Fowls successfully exported to all parts of the world. **LARGE CATALOGUE FREE.** 68-page book, "Minorcas All Varieties", history, mating, fitting for show, &c., fully illustrated, 25 cts., postpaid.

My Minorcas have never lost a special for large size, and have won more prizes in strong competition at New York, Boston, Washington, and other leading shows, than any other four strains combined, which proves the quality of stock I sell.

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BLANCHARD'S WHITE LEGHORNS

The Leading Strain of Heavy Layers

Are no experiment, having been carefully selected and bred for over twenty years, with results that fully justify the claim that they are the greatest laying strain of Single Comb White Leghorns in existence. No labor or expense has been spared in building up and perfecting this strain, and while the production of large, pure-white, fancy market eggs has been the main object, **STANDARD QUALITIES** have not been neglected. They are large, vigorous, active, and handsome. Good winter layers, and keep at it all summer. Our birds are unexcelled for introducing new blood, or as foundation stock. **NO BETTER ANYWHERE AT ANY PRICE. EGGS FOR HATCHING, \$2 per 15; \$3 75 per 30; \$5 per 45; \$10 per 100.** Illustrated circular free.

H. J. BLANCHARD, Groton, Tompk. Co., N. Y.

HERCULES POULTRY FENCE

Many times as strong as regular Poultry Netting. Made from the best quality of Galvanized Steel Wire. Set Posts 20 feet apart. It

WILL NOT SAG OR BUCKLE

Will turn Calves, Hogs, Dogs, Wolves, Rabbits and Poultry. No top or bottom rail required. Size of Mesh, 2 inches. Size of Wire, No. 12 at top and bottom; intermediate line wires, No. 16; mesh wires, No. 18. **Sold at Anti-Trust Prices.** Also a full line of Farm and Ornate Fence. Send for free Catalogue. Address,

COILED SPRING FENCE CO.

Box 81. Winchester, Indiana, U. S. A.

LEFFEL'S Unconquerable Barred Rocks

If you do not believe it, **SEND AND GET HIS CATALOGUE**, and it will tell you who scored his birds. He stands in front, with highest scores by leading judges. I. K. Felch gave one of his cockerels score of 95 points, and wrote across score-card, "Every doubt given against this noble big fellow;" weight, 11 lbs. H. A. Bridge gave one of his birds score 95 points. B. N. Pierce cut one of his cockerels one-half in color. L. G. Jarvis, Guelph, Canada, scored 4 birds 94%. J. Y. Bicknell scored cockerel 94%. Charles McClave 93% scores of birds. I have exhibited 25 times in past 8 years and won 24 times on cockerel, and tied the other one score. Sharpe Butterfield scored 3 cockerels in one show 93%. Send for my catalogue and see my winnings and scores, and who scored them, and you will say I lead the procession in winnings. Elegant breeders in any number.

NEVER LOST ON BREEDING-PEN

in any score-card show, nor any pullet where they were weighed and weighed correctly. Only lost once on first cock. I won all prizes at Springfield, O., Aug. 21-24, 1900, all prizes offered. My strain won all prizes at Urbana, O., Aug. 14-17, 1900, this season making 30 times I have exhibited in 8 years. No breeder ever made such a record.

Ten Times I Won Every Money Prize Offered.

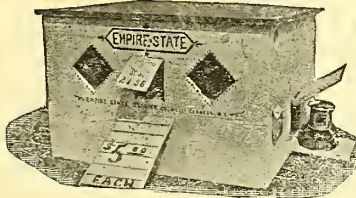
I have a grand lot of show birds for winter shows. They never fail to win for me, and they will win for my customers. Residence 363 South Fountain Ave. Farm one-half mile from city.

EGGS from Best Pens Only,

\$4 per 13; \$7 per 26; \$9 per 26.

GEO. M. LEFFEL, Springfield, O.

THE EMPIRE STATE BROODERS ARE WITHOUT AN EQUAL.



Are sold under a positive Guarantee, and are worth double the sum asked for them. 100-chick size only \$5.00; 200-chick size only \$10.00; Crosier's Lice Paint, 5 lbs. \$1.00; Crosier's 20th Century Lice Powder only 10cts. 1b. guaranteed first-class; Climax Leg-bands, 50 for 50 cts., or 90 cts. per 100; Crushed Oyster-shells 50 cts. per 100 lbs. or \$8.00 per ton. Other poultry supplies very low priced. Write us to-day, enclosing 2-cent stamp for fine illustrated catalogue. Circulars only for card. Satisfaction Guaranteed.

EMPIRE STATE BROODER CO.,

Box C 3, Halls Corners, N. Y.

"20 HENS

Laid 527 Eggs in 30 Days. Set 400. Hatched 396. Lost none. Pullets laying in 97 Days." That's the record of

LEE'S EGG MAKER

for making hens lay and chicks grow. Made of spices, roots and herbs combined with pure granulated blood, Big 2 1/2 lb. box 25c; 25 lb. pail \$2. Costs 1/2 ct. per feed for 25 hens. Lice and mites are easily destroyed with

LEE'S LICE KILLER

a liquid—it is simply sprinkled on roosts; no handling, labor or bother. Qt. 35c; gal. \$2. Sold by 15,000 dealers. Write for 32-page catalog of best Poultry and Stock supplies.

GEO. H. LEE CO., Omaha, Neb., or Cyphers Inc. Co., Buffalo, N. Y.; Henry Albers, Los Angeles, Cal.; Lilly, Rogardus & Co., Seattle, Wash.; Portland Seed Co., Portland, Ore.

CONKEY'S ROUP CURE

Cure Guaranteed.

Conkey's Roup Cure is the only positively known remedy to cure Roup in all its forms as long as the fowl can see to drink. Simply put the cure in drinking-water, and the fowl takes its own medicine. For **Conkey**, especially in pigeons, this cure excels all others. Our 50c. package makes 25 gallons of medicine. Directions with every package. If it fails to cure, we refund the money. Postpaid, small size, 50c.; large size, \$1.

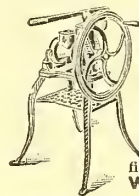
Conkey's Louse Killer never fails to kill. Try it. 25c. per package. 15c. extra for postage.

Conkey's Egg Food and Poultry Tonic Helps to produce larger and healthier eggs, and will make your hens lay when everything else fails. It regulates the liver and bowels and keeps their blood in a healthy condition. Will produce an egg every day. 25c. per package, and 15c. extra for postage.

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G. E. CONKEY & CO., Cleveland, O.

Eastern Wholesale Office, 8 Park Place, New York City. Pacific Coast Agents, Petaluma Incubator Co., Petaluma, Cal. Do not send stamps.

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Also Bone Mills for making phosphate and fertilizer at small cost for the farmer, from 1 to 40 horse power. Farm Feed Mills grind fine, fast and easy. Send for circulars. **WILSON BROS., Sole Mfrs., Easton, Pa.**



IT BEATS ALL.

The Natural Hen Incubator beats the old way of setting hens ten times over. 100 egg hatcher costs only \$2. 94,000 sold principally by agents. We want 5,000 active men and women agents for the new season. Special terms with you—a large margin of profit. 10c egg formula and catalogue sent free, if you write today. Territory may be gone tomorrow.

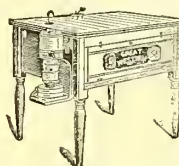
NATURAL HEN INCUBATOR CO., 6 9, COLUMBUS, NEB.

USE WILLETT'S BANDS.

1902.—

Adopted by all the Leading Specialty Clubs.

The official enameled bands are furnished by me at 4 cents or 45 cents per dozen with no initials numbered from one up. **Aluminum Bands** for pigeons and poultry, with year and number \$3 per 100, with year only \$1.50 per 100, with initials 25cts. per 100 letters. Send 2c. stamp for circular and sample band. Remittance must accompany order. **THOMAS WILLETT'S, 202 Lawrence Street, Lowell, Mass.**



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for free catalogue, 100 egg copper tank, hot water incubator; 3 walls best poplar case, perfect regulator, nursery attachment, safety lamp, metal deflector and all latest improvements. Sent on 40 days free trial. Price \$10.00 when you are satisfied. Ask for catalogue. Full line all sizes and brooders.

GREAT WESTERN INCUBATOR CO., Dent, G. KANSAS CITY, MO.

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of prize winning poultry for 1902, printed in colors, illustrates and describes 50 varieties of poultry; gives reasonable prices of eggs and stock. Many hints to poultry raisers. Send 10c in silver or stamps for this noted book.

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CRUSHED OYSTER SHELLS.

50c. per hundred, ground fine, 30c.; Bone, Grit, Scraps, Charcoal, Bone Cutters, etc. Send for reduced price list.

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or other real estate may be found through me, no matter where located. Send description and price and learn my successful method for finding buyers. **W. M. OSTRANDER, North American Building, Philadelphia, Pa.**

POULTRY PRIZES

There are no Better

Of course you have heard of the famous Pine Tree Farm poultry and its prizes.

Don't you want to introduce a little new blood into your flock? I have 23 varieties of land and water fowls and will Guarantee Satisfaction

with everything that I sell and ship Eggs by the sitting or the hundred.

Send for big free catalogue.

D. A. Mount, Box 1, Jamestown, N. J. The Pine Tree Farm.

HAWKINS'

ROYAL BLUE STRAIN

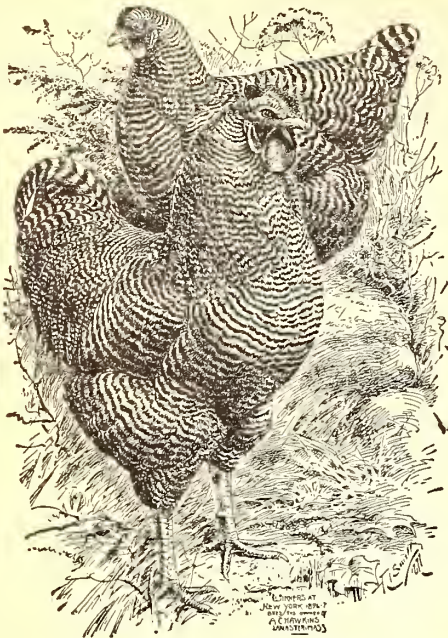
PLYMOUTH ROCKS

BARRED, WHITE AND BUFF.

WYANDOTTES, SILVER WHITE
AND BUFF.

EGGS FROM PRIZE
MATINGS.
1 Sitting, \$5. 3 Settings, \$10.
2 Settings, \$8. 5 Settings, \$15.
Per 100, \$20.00.

Have won more prizes at New York, Boston, Washington, and America's greatest shows than all others. My matings this season are the best I ever owned. * * * * *

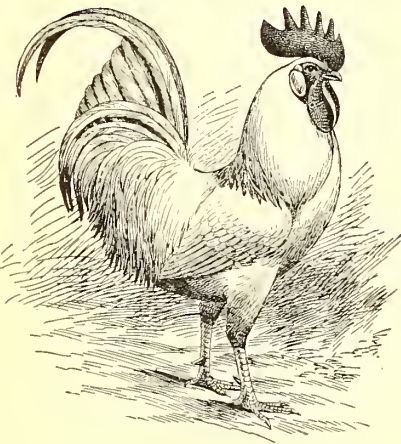


Winners at New York, from Life.

At the Great National Show, WASHINGTON, D.C., in hot competition with over 300 birds of these varieties, the best that could be found regardless of price, I won 45 Regular and Special Prizes on 39 Entries, including First Prize on Breeding-Pen in each variety, Special for Best Display in the American Class, Special for Best Exhibit of Plymouth Rocks, Sweepstakes Special for Best Cockerel in the show (Bantams excluded), and this on my First Prize Barred P. Rock Cockerel. My winning White Wyandotte cock was pronounced by the judges to be the best they had ever seen. I won twice as many first prizes as all other exhibitors of these varieties. My BUFF ROCKS, at Boston, 1899, in hot competition, won more first and special prizes than all others. My customers are winning all over the country. If you want the BEST, write me. Hundreds of Choice Exhibition and Breeding Birds at Honest Prices. Catalogue of America's finest Plymouth Rocks and Wyandottes free.

A. C. HAWKINS, Lock Box 28 Lancaster, Mass.

We Will Fit You Out For Business.



WE KNOW that every poultryman whether in business on a large or small scale needs printing, and we are confident that we can please all, because we have the finest printing plant in this section of the country. We also have cuts of every standard variety of poultry, Ducks, Geese, Turkeys, etc., which we use on all of our printing **free of charge.**

To induce you to try our work we make the following trial offer:

We will print you 250 Note-Heads, 250 Envelopes, 250 Business Cards, 250 Shipping-Tags for \$5 delivered.

This liberal offer could only be made by us, and for the small sum of \$5 you are fitted to do business properly. Good printing will gain you many friends and increase you business as nothing else would do. Remember we put any cut you may wish on your printing at this price. This saves you money.

These prices are for cash only. No orders will be received unless the money accompanies the order. Write copy plainly and state the cut or cuts preferred to be used on the work. Make all remittances payable to

GEO. E. HOWARD & CO.,

305 10th Street N. W.,

Washington, D. C.

"Ringlets" Soar Still Higher.

At the Empire Show of the Nation—Madison Square Garden, N. Y., the World's Record of

E. B. Thompson's Barred Plymouth Rocks

4 Years in succession was the most remarkable ever achieved in the realm of poultry exhibitions. This record is by many points the highest ever accomplished in annals of the New York Show. Winning more than three times as many 1st prizes as any other exhibitor, and as many 1st prizes as all competitors combined. Besides, more than twice as many cups and specials as all, including the superb challenge trophy, value \$100, for best cock, cockerel, hen, pullet and exhibition-pen; \$100 sterling silver cup for finest exhibit; grand special prize sweepstakes cup, value \$100, presented by the President for best P. Rock cock, cockerel, hen, and pullet any variety. My clean sweep in 1898, of

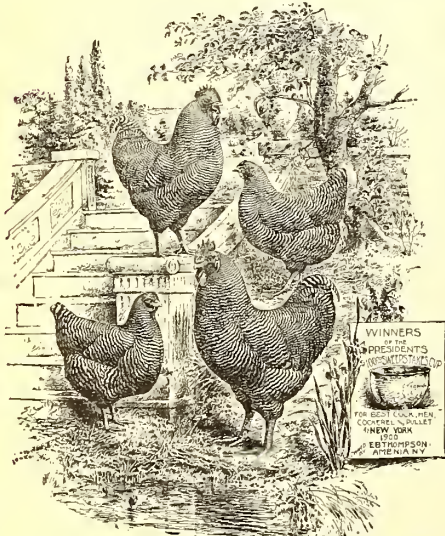
1st, 2d, 3d, 4th, and 5th Prizes

on pullets has never been approached in Madison Square Garden, and stands alone and unequalled. The "Ringlet" world's record of 1st on exhibition-pen at New York 3 years in succession is the undisputed champion. With their 1900 record the "Ringlets" have won at New York a grand total of 77 prizes. 31 of these are 1st and specials, being 17 more first and special prizes than won by any competitor in the history of the show.

Grand Stock For Sale. 600 Breeding Cockerels—one of them will do you good. Show birds fit to win in the fastest company.

Richly illustrated 24-page catalogue on application. It is full of original illustrations of New York Winners from life. Choice Females in any number.

EGGS From Finest Exhibition Matings, 1 setting \$5; 2 settings \$9; 3 settings \$12; 4 settings \$15.



Winners of the President's \$100 Sweepstakes Cup for best cock, cockerel, hen, and pullet at New York.

Address, **E. B. THOMPSON, Box 406, Amenia, Dutchess Co., N. Y.**

THE FEATHER



BY COURTESY
U. S. BUREAU
ANIMAL-INDUSTRY.

BUFF WYANDOTTE MALE.

PUBLISHED BY · **GEORGE E. HOWARD & CO.** WASHINGTON, D. C.



EASTERN SHORE POULTRY YARDS

The place where fine **S. C. White, Brown, and Buff Leghorns** are bred to win.

My birds have won at the **GREAT WASHINGTON, PHILADELPHIA, and NEW YORK SHOWS.**
Early Fertile Eggs from my best matings, \$1.50 per 15; \$4 per 50; \$7.50 per 100. For sale—S. C. White and Brown Leghorn hens at \$1 each.

A Member of American Leghorn Club.

A. C. VAN DEMAN, Parksley, Va.

1895 Winners Wherever Shown. 1902

Noyes' Buff Rocks win the laurels at every show in the State this season. At Torrington, Hartford, Danbury, Waterbury, Wallingford, Stamford, and Bristol; also Providence, R. I. At Boston, C. on pullet (42 competing), C. on hen (22 competing). Send for circular giving complete awards and full particulars. Eggs from very best pens, \$2 per 15 straight. No seconds. Mention The Feather.

P. W. NOYES.

SPECIALIST BREEDER,

QUAKER HILL, CONN.

NORTHUP'S MINORCAS SINGLE AND ROSE COMB.

EGGS GUARANTEED TO HATCH regardless of distance. Fowls successfully exported to all parts of the world. **LARGE CATALOGUE FREE.** 63-page book, "Minorcas All Varieties", history, mating, fitting for show, &c., fully illustrated, 25 cts., postpaid.

My Minorcas have never lost a special for large size, and have won more prizes in strong competition at New York, Boston, Washington, and other leading shows, than any other four strains combined, which proves the quality of stock I sell.

GEO. H. NORTHUP, Box 307, Raceville, Wash. Co., N. Y.

Gold Medal and Highest Award at Pan-American, October, 1901,
Were Placed on

The CYPHERS INCUBATOR

Time and time again the Cyphers 360-egg machine in the hands of our customers has hatched upwards of 300 chicks from 360 untested eggs. Allowing ten chicks to the hen, it would take thirty hens to hatch 300 chicks.

THE EVIDENCE.

"My largest hatch was 345 chicks out of 360 eggs."—J. F. Ramsey, Mortonsville, Pa.

"I got 305 chicks out of 318 fertile eggs."—Edw. Sharpe, Genoa, N. Y.

"I hatched 314 chicks out of my 360-egg Cyphers."—Herman Friedl, Haskell, Ind.

"From 360 eggs we have hatched 317 of the brightest, strongest chicks I ever saw."—Frank B. Taylor, Prompton, Pa.

"From my No. 3 Cyphers, holding 360 eggs, we hatched 311 chicks."—L. R. Hobart, Lake Crystal, Minn.

"Out of our largest size incubator I hatched 314 good, healthy chicks."—H. Murr, Gordonville, Pa.

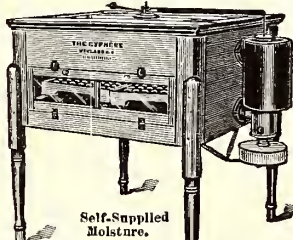
"My incubator holds 360 eggs and from one loading I got 301 chicks."—Jas. C. Myers, Oakes, Pa.

"One hatch I obtained 327 strong, healthy chicks from the 360-egg Cyphers."—Sprague Bros., Florence, O.

Think of the work and the worry in caring for the thirty hens it would require to hatch 300 chickens, ten to each hen! **Five minutes**, morning and evening, will take perfect care of the Cyphers 360-egg incubator—THIS WE GUARANTEE.

Literally thousands of persons in every walk of life are doing as well as the few above quoted, and the smaller sizes of Cyphers Incubators (90, 120 and 220 eggs) do precisely as good work as this largest size, on this you can absolutely depend. While you are about it, why not buy the best and know that you are right? Illustrative descriptive 16-page circulars, English, German or Spanish, **free on request.** Complete catalogue, 180 pages, 8x11 inches, 10 cents in stamps for postage. Ask for Book No. 6 and address our nearest office.

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Self-Supplied Moisture.

ARE YOU GOING TO BUY EGGS?

I have them at \$1.50 per 15 and up; Barred and W. P. Rocks; White, Golden and Partridge Wyandottes; S. C. White and Brown Leghorns; and Black Minorcas. Will sell trio Duckwing Leghorns and W. C. Black Polish at bargains. Supplies.

F. A. STEDMAN, Rutherford, N. J.

Flood's Roup Cure

The only **RELIABLE ROUP CURE** on the market. It is guaranteed. No cure, no pay. **FLOOD'S ROUP CURE** can be used with greater success, with less time and attention than any other of the so-called cures. Price, 50 cents postpaid. Send us 2 cts. in postage for Sample. Manufactured only by

W. H. FLOOD, 1403 Woodland Avenue, Cleveland, O.

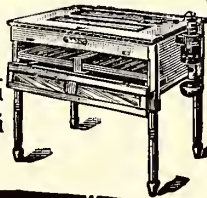
200-Egg Incubator for \$12.⁸⁰

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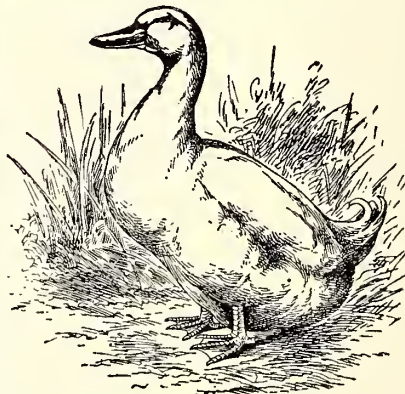
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WHITE WYANDOTTES LIGHT BRAHMAS

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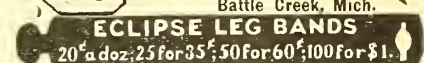


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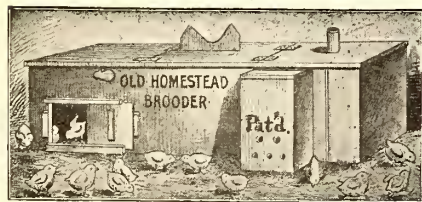
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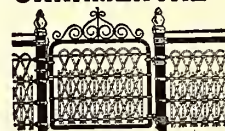
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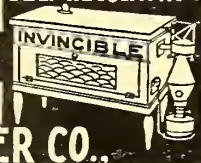
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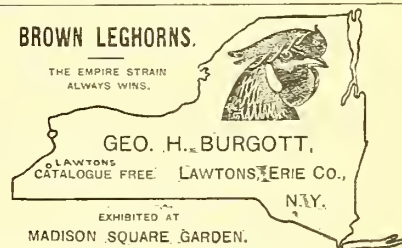
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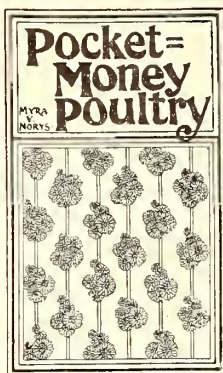
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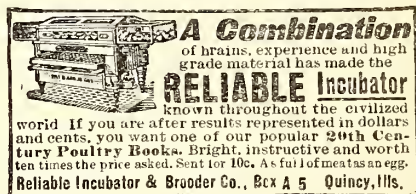
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JUST OUT! LITTLE CHICKS.

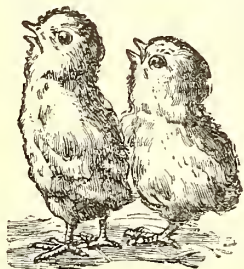
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A Treatise Giving Hints on the Successful Care of Chicks, by Both Natural and Artificial Methods.

By **MICHAEL K. BOYER**, Editor Farm-Garden and Poultry.

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WASHINGTON, D. C., MAY, 1902.

FIVE CENTS.

PHEASANTS.

Their Culture Profitable and Pleasant.

How to House and Care for Both the Old and the Young.

Both the common and the ornamental pheasants have become plentiful and popular of late years as compared with former days when they were only seen within museums or shows of various kinds. They are now cultivated upon large country places as game birds for private shooting. Many keep them for the pleasure derived from possessing them, rare specimens being sought on account of their beauty.

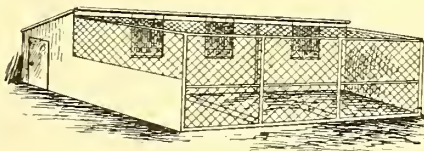
The pheasant family is of ancient origin, comprising, as it does, the peafowl of the days of Solomon, the guinea fowl and turkey, which may be as old, and the many kinds of pheasants that have inhabited the mountainous country and jungles of China, Japan, India, and, in fact, all the older eastern countries from time immemorial. No bird of the hills or forest is naturally more wild than they by nature. But like all our domestic fowls, they gradually give way to the influence of man and become partially tamed, and even friendly with their keeper.

Among many they are known as and called English Pheasants, while in fact it is quite doubtful if any of the family was ever indigenous to the British Isles. It is far more likely that the Romans brought them into the country. Be this as it may, it can not take from the people of the present England the credit due for having gathered so many beautiful varieties from all over the world, propagated them in confinement, and distributed them among others. Much has been written of their scientific status but little of their possibilities as a domestic fowl.

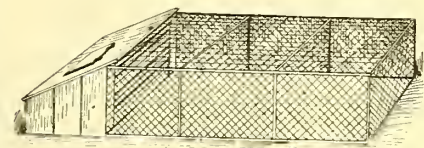
For the benefit of those who may wish to have the highest authority on the many kinds we quote from Henry Scherren, F.Z.S., England, who furnishes some information and guides to the possession of more; viz.:

"The authorities are not agreed about the number of species. This is not to be wondered at if it is considered that the definition of 'species' varies according as the classifier is a 'splitter'

or a 'lumper'—terms which sufficiently explain themselves. Mr. W. R. Ogilvie-Grant of the British Museum (Natural History), puts the number at eighteen. Leaving two of these to be dealt with later, we shall here indicate his grouping of the remainder. Eight, like the common pheasant, have the crown green or a greenish-bronze, and the lower back, rump, and upper tail-coverts maroon or a red-bronze, with purple or



HOUSE FOR PHEASANTS.



BOX AND RUNWAY.

green metallic reflections. Seven of these have no white ring around the neck, or only traces of one; and in the eighth the Mongolian Pheasant (*F. mongolicus*) there is a broad white band, interrupted in front. The remaining eight have the lower back, rump, and upper tail-coverts greenish or bluish slate-color, and in all but the Japanese Pheasants (*F. versicolor*) there is a rust-colored patch on each side. Three—the Chinese Ring-Necked Pheasant (*F. torquatus*) and its close allies, or it may be varieties—have a white ring around the neck, while in five the ring is absent or imperfect. Full details of the plumage will be found in the 'Game Birds,' prepared by Mr. Ogilvie-Grant, for the series edited by Dr. Bowdler Sharpe.

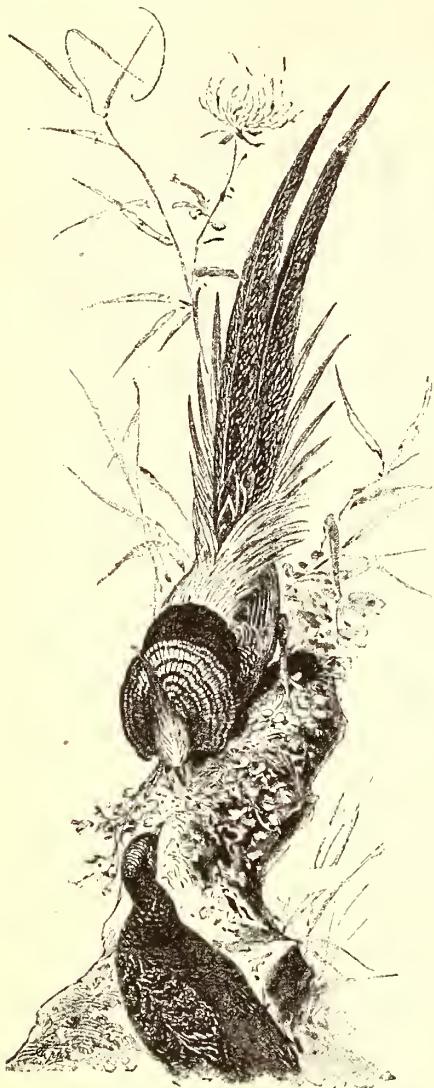
Every one who is practically interested in the subject possesses Mr. Tegetmeier's book on pheasants (ed. 3d, 1897); and most people know that the finest plates of these beautiful birds are to be found in Elliot's 'Monograph of the Phasianidae' (1870-72) where all the species known at the time were figured from drawings by the late Joseph Wolf."

With us, what is known as the common pheasant is most generally kept. These pheasants will live quietly in a group of one male and several females, providing the females will allow it. The male is usually satisfied, but the females often destroy each other, and will not submit to other than pair mating. This is an arrangement that must be looked after, so one may be fully assured that pen-mating will be allowed. As many as four females and one male, common pheasants, have been known to do well in a coop and runway built for fowls, their wings being cut very closely to prevent their flying; they laid well and their eggs were very fertile. When they are bred in very large numbers this will do, but usually one only possesses a pair or two, the loss of which would be serious. To prevent this, the enclosed coop and run is best and for all the rare varieties an absolute necessity, for many of them will fly as quickly as a quail, and are equally as wild. Many of the so called common pheasants will become about as tame as guinea fowls when they have been kept upon a place for several years.

We have seen hundreds of these pheasants at Fishers Island and in New Jersey where they are reared, apparently with as little trouble as is required in the growing of bantams. In fact, it is quite certain that many of them are brooded by the bantam hen the same as the bantam chick. In the handling of the young pheasant and hatching of the eggs, special nests and runways may be used to advantage.

The special hatching-box may be placed upon the ground within a small coop or house and the hen-pheasant may be allowed to go out each day; or the box and runway may be put outside in a shaded place where food and water supply may be constantly at hand for her use; in this way she is easily handled. When the young are hatched this same box and runway will do for them until they are large enough to have their freedom.

Special care must be given them to



GOLDEN PHEASANT.

avoid the possible presence of lice or insect life of any kind, also gapes, all of which are most destructive to both old and young pheasants. The hatching-box, runway, and roost should be well coated with lice-paint of some kind and the ground about them kept perfectly clean so as to assure against the presence of gapes. Cold and damp are fatal enemies of the pheasant. In fact, pheasants, old and young, should have equally as good care as is necessary for the welfare of Game Bantams.

When box and runway are placed outside they should be both vermin and bird-proof, so that the hen, her eggs, chicks, and food may be safe from marauders. The box and runway that are here illustrated may be as large as desired. But if the box is three feet long, two feet wide, and two feet high in front and one foot high in the rear it will be a good coop. If somewhat larger in proportion, so much the better. The wire runway may be as large as desired, but should be so constructed as to permit of being moved about to clean spots of ground when necessary, as cleanliness is absolutely essential in rearing pheasants.

PHEASANT-HOUSES.

Pheasants must be so confined as to assure their complete separation as well as absolute confinement, for they are very quarrelsome and are always

anxious to get out and away. The aviary for them must be as safely built with regard to security as is a cage for a bird or for the wild animal. The divisions separating the rooms may be made close together so as to make the living-rooms not less than six feet square. These rooms must be closely wired in with close-mesh wire-cloth, so that the pheasants can not get out. The outside runs should not be less than 6x10 feet, closely wired in on all sides and on top; the portion next to the ground to be built up about two feet with boards and the runways covered with grass sod. The divisions within the house should be built up likewise with boards from the ground. This style of house and run provides against the pheasants getting out together or fighting one with another during the breeding season when they are disposed to be very cross. At the same time, when they are inside and on the roosts, which should be four or five feet from the ground, they can see each other from room to room—a pleasure they seem to enjoy during the cold months of winter.

Houses for pheasants are built quite like poultry-houses, only that it must be absolutely certain that the pheasants can not get out and away. They will scratch and dig just as hens do; so on this account it is necessary that every precaution be taken to prevent their escaping in this way, either from runway or house. All runways must be covered with wire-cloth to make escape by flying impossible. Every precaution is necessary, for while many of the pheasants are quiet as Game fowls they may be so frightened at any time as to wish to dart away without a moment's warning; therefore it is necessary to provide for their security and thus save all worry concerning them, and sorrow in losing them by escape.

CARE OF PHEASANTS.

Pheasants call for about the same attention as must be given to Game Bantams or pigeons, and they will thrive on the same manner of food as the Game Bantams. They must have plenty of green food and some animal food for the little chick-pheasants. Their first food may be ants' eggs and canary seeds, hard-boiled eggs mashed very fine and mixed with bread-crumbs, or a custard made by beating an egg with a tablespoonful of milk and cooking over a gentle heat. Clear eggs that have been set on for a while will do for this and nothing is better. The pheasant-chicks must be fed little and often on this kind of food, as above mentioned, also on any of the small chick-foods as prepared and sold, or small broken wheat or oatmeal.

Mr. Douglas, of England, is authority on handling pheasants, and writes as follows:

"Although food has a great deal to do in the rearing of pheasants, attention has also an equal share; and without the required attention being given, food would be of little avail. I will commence with the hatching. Never remove your hens until the chicks are well nested, guarding the nest that may keep any that may be hatched before the last chick is strong enough to leave the nest. Never take the first hatched from the hen—it is wrong; nothing is so beneficial in strengthening a chick as the heat of the hen's body. Let feeding alone for the first twenty-four hours after the first chick is hatched; the large quantity of yolk that is drawn into the chick within the last twenty-four hours of its confinement in the shell is sufficient for its wants during the time specified. Next, have your coops set on dry turf two or three days previous to your pheasants being hatched; it will save a little hurry



COMMON PHEASANT.

SILVER
PHEASANT.CHINESE EARED
PHEASANT.

when wanted; also, it will keep the spot dry, that being so necessary on the first shift of the nest. If your turf is not of a sandy nature, sprinkle a handful of sand on where you intend to shift your coops. The coops being shifted daily is very beneficial to the chicks. Take care they are not let out in the morning until such time as the sun is well up, if there is a heavy dew on the grass, and the grass has got a little dry. I have no doubt but the continual letting out on wet grass, previous to the sun having power to counteract the bad effects of the cold and dew, is the cause of many of the ills to which they are subject. Feed twice or thrice, if necessary, previous to letting out. The principal food I give for the first fortnight is composed of eggs and new milk, made as follows: In proportion, one dozen of eggs beaten up in a basin, added to half a pint of new milk; when the milk boils add the eggs, stirring over a slow fire for a short period to thicken, when it will form a nice, thick custard. This I give for the first three days; then I commence to add a little of the best oatmeal, and any greens the gardens can furnish, finely chopped, for the next three or four days; after seven days I add to their diet a little kibbled wheat—being kiln-dried previous to kibbling—also split groats and bruised hempseed, and occasionally a handful of millet seed, taking care all their food is of the very best, and that the feeding-dishes are scalded in boiling water daily. The above food I use until chicks are about three weeks old, when I add minced meat mixed with oat or barley meal, with the broth from the meat, the meat being

composed of sheep's head and plucks taken from the bone and finely minced and just sufficient of the broth to form a dry, crumbly paste. At five weeks old I consider a feed of good wheat and barley alternately, the last thing at night, quite necessary, not forgetting at this age to add a little tonic solution of sulphate of iron to their water daily. At this time the growth of their feathers requires a great deal of support, and if the bodily strength is not supported by a strengthening diet, they must give way. Continue the custard up to eight weeks old, but adding more meal to it with the green food. Give one sort of food at a time (just so much that they eat it up clean) and attendance every hour from the time you commence to feed until shut up for the night. Change the water repeatedly during the day."

SEVERAL VARIETIES.

As stated above there are eighteen or twenty varieties of pheasants; but the common pheasant, which is most likely the result of a cross, is the best adapted to general use. They are bred in large numbers for game birds to turn out upon vast estates for shooting. They are of good size and quite vigorous in growth; they mature quickly, and are the most domestic of them all. Our illustration shows their many fine points and represents more concerning them than could be printed in a page of THE FEATHER in reading matter.

The pheasant that is commonly known as the English Ring-Neck is the result of crossing the Chinese Ring-Neck with the English. This Chinese Ring-Neck is commonly called Mon-

golian. English Ring-Neck Pheasants are used more frequently than any other for stocking. Sportsmen prefer them because they are better on the wing than other varieties, and are very hardy, enduring when at liberty the most severe snow-storms and cold weather with less suffering and loss than might be expected. Chinese are rather small and hard to breed when true to the variety, and do not lay so many eggs as the English cross-breed, which are quicker on the wing, and the finest game bird in many ways.

When kept for home breeding they will lay from thirty to forty eggs each, when the eggs are removed daily. They usually lay their eggs in a small hole which they make in the ground. When turned out to shift for themselves, they usually lay two litters and mother two broods of young during a season. It takes twenty-four days to hatch pheasant eggs. To give some idea of their quality of endurance, the manager of a shooting-park that is stocked with this variety of pheasants, relates that a few years ago during and after a severe blizzard they were completely shut in with snow for four or five days, with but little loss.

After these, the Reeves Pheasant would be recommended for selection. They are the largest variety of true pheasants—strong, vigorous, hardy, and breed well in our climate. They came from China, and are said to be very swift of wing. They are beautiful in plumage, yellow barred with black; top of head and neck white, divided with a band about the head; tail grayish-white, marked with golden-red on the edge and barred with dark crescent-shaped bars; they breed well in the closed runs, and have proved to be fine game birds for the rough hills of Scotland.

But the two varieties, Golden and Silver, are better known, perhaps, than any of the highest-colored, rich-plumaged pheasants. The one has the golden crest, orange and purple-tipped collar, and the scarlet tail; the other, white top-color penciled with dark, under body metallic black, crest black. They are very domestic, and do well in confinement. They have been seen so tame as to run about in the yard with chickens and other fowls. They lay well, and their eggs are very fertile. For those who desire a beautiful pheasant and one easy to rear, this variety will prove a success; but they are not considered so good a game bird, nor so fine for the table, as the others.

The four pheasants as described above are best adapted as general-purpose pheasants. When going beyond these a selection must be made from the oriental varieties which are more scarce and rather high in price. Many of them must be kept in warm houses during cold months, and all of them demand special care and attention. Those who wish to keep the less hardy varieties should first obtain and study some standard work on pheasants and learn their lesson well prior to taking up their culture.

Six-Pound Leghorns.

The Brown Leghorn fanciers are more active than ever before. The interest taken in the larger size and better color has started a boom in this direction. On all sides we hear the talk of six-pound Brown Leghorns. This is good for the breed that is most valuable for egg-production.

GROWING CHICKS.

Just at present all are intent on raising the young chick for the market and the show-room. No matter which purpose you may have in view let the work be well done. At least one-half the quality attained can be credited to those who care for the chicks. So can the failure to gain the best quality be charged against those who have their raising in hand. So much depends upon the manner of feeding, the time and regularity of feeding, and the quality of the food given them. At the same time it is possible to have the very best kind of food for them and fail in the completion of the chick by slipshod methods. No one can succeed in any of the branches of poultry culture if they do the work in a neglectful kind of a way.

The most important factor in raising fine, strong chicks is the mother-hen. She must be quiet and domestic in her habits, fond of her job, and large enough to nicely cover her brood. Small, close-feathered hens are not so good as larger ones that have loose plumage like the Plymouth Rocks, Cochins, or Wyandottes; and, above all, see that no insects of any kind infest her body, the chicks, or the coop. Be positively certain as to this, for so much depends on this for continued health and vigor. Lice will sap away the life and vigor of a whole brood in a very few days if they gain control of the situation. It is best to fill the hens' feathers full of insect-powder when you set her. Follow this with another application on the tenth day, and allow the hen the chance of a deep dust-bath every time she comes from the eggs, for by so doing she will rid herself of all the powder and the dead insects. If the hen and the nest are perfectly free from lice and bugs the chicks will start life with a better chance than if they had insects upon them.

The coop for the hen and chicks must be clean and warm and placed in a dry spot away from the damp, and with plenty of room for the hen and chicks to be comfortable for a whole day when they must be shut in from the rain. In this way they can be kept the very best, and such a coop can be made from any kind of a wooden box that is clean and large enough for the purpose, or the coops can be as fine as you wish to make them.

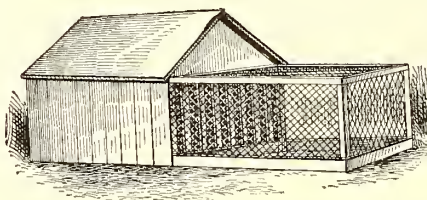
The coops for the chicks should be built to meet the situation that surrounds them. When birds of prey or animals that will kill the chicks come about, use the covered-run coop. Make the coop to meet the demands of the situation; plan ahead to prevent trouble; avoid losses by preventing; keep your chicks well and alive by shielding them from danger and ill health. "Make hay while the sun shines" is a good motto. When ap-

plied to keeping young chicks it tells us to ward off trouble by taking proper care of the chicks when we have them. Continued dampness is most trying on the chicks but much of the bad effects of this can be warded off providing the chicks have a dry place to go out of the damp.

FOOD, WATER, AND GRIT.

To gain quick and continued growth the chicks must have good, wholesome food; clean, pure water, and grit of some kind. This food must be given often and in quantities that they will eat up and at regular hours; the plan of feeding at irregular intervals is bad for them. Young chicks are creatures of regular habits and know when it is time to have their food and will cry for it, they will also stand around and chirp when over-fed; for this reason be regular and prompt. Water is of vital importance; the chicks want just a little but frequently, and will attend to their own needs if it is always close at hand where they can run to it at will. The water should be clean and fresh, for nothing carries ill health to a chick so quickly as foul, unclean water. This soon finds its way all through the system, for the water they take softens the food and prepares it for the grinding process when it reaches the gizzard.

As we tell later how to feed and what to feed we shall again insist that you do not neglect the necessity for great regularity in the care of the hen, coop,

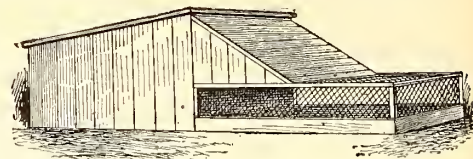


and brood. We pay special attention to the care of the brooder further on, so all this applies to the brood with the hens. After the chicks are about three weeks old the hen may be allowed to run about with them for a part of the day after the grass is dry, but prior to this they will do better if the hen stops in the coop all the time and they be allowed to run about.

How to feed the young chicks is of quite as much importance as what they are fed. Of all things keep the ground perfectly clean so that it will be safe to cast their food upon the ground at any time. Never leave stale food about to be contaminated or to sour, for this breeds disease. If food is to be left for the chicks have it up off the ground in a dry, sheltered place where rain and damp can not injure or destroy its qualities. Grit is quite as important as is the food itself; without it they can not consume their food. Above all feed them only good, solid, wholesome food; better feed little and often than to give too much rich, concentrated food all at once.

THE FEEDING OF THE CHICKS.

Hard-boiled eggs, mashed quite small, shells and all, mixed with equal portion of bread-crumbs, are excellent for the first meal. Bread soaked in milk and pressed quite dry is equally as good; many prefer it to egg for the reason that it is less likely to clog in the bowels of the chicks. When the egg is fed be sure to mash the shell very fine, for it furnishes the grit for the chick. Grit

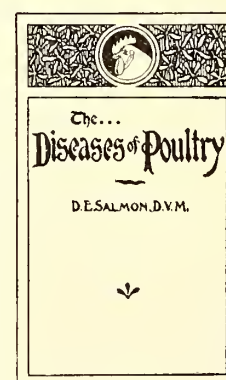


of some kind should be furnished the chick; sharp sand is the best. For soft food, ground oats and corn with a little middlings are good; they should be mixed with hot water into a dry, crumbling mash and allowed to cool. Hot food is not best. A little warm is its best condition for feeding in hot weather for it partially cooks the food and aids in its digestion. Other food should be cracked corn, wheat, and rolled oats. As soon as they can eat it, any small grain that has no hulls is good for them.

DRY FOOD OR GRAIN RATIONS.

One of the best possible rations for a chick, whether reared under hen or in a brooder, is what we call the dry ration. It is the nearest approach to the natural diet of a fowl possible to attain. This method calls for all dry food, such as rolled wheat and oats, small broken corn, rice, or grain of any kind, small seeds and beef scrap mixed; to this should be added some small grit of some kind. The beef scrap should be of good quality, that has been properly prepared and nicely ground. This kind of food can be greatly improved by the addition of some well-broken peas and beans, and a little properly-prepared clover. The peas, beans, and clover furnish the vegetable and green food, the balance the grain, seed, and animal portion of their diet, giving them a most perfectly-balanced ration. Should you prefer to add to this a mixed food, be sure it is thoroughly scalded; if cooked or baked so much the better, for this takes away

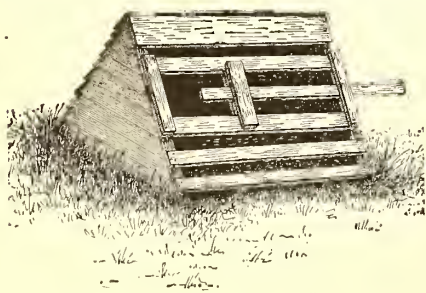
The Diseases of Poultry.

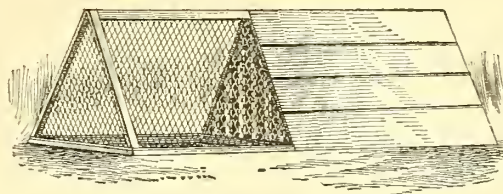
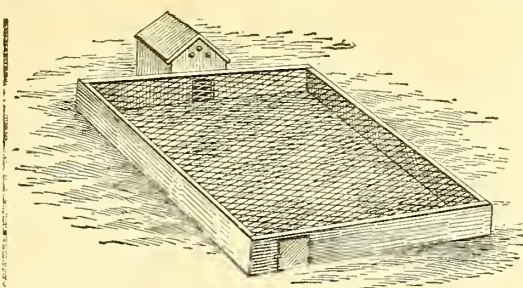


"The Diseases of Poultry," by D. E. Salmon, D. V. M., is the only standard and reliable work published in the English language on this important subject to every poultryman. The author is too well known to need an introduction, and his works are adopted as authentic by everyone. This is his latest book, and all who breed fowls, whether for pleasure or profit, should have a copy of it. This great book has twelve complete chapters treating on all known diseases which affect poultry.

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the unnaturalness of the food. But little trouble from feeding is ever experienced when this method is followed.

Those who follow this system have but little trouble when care is given to the proper mixing of the food, but when carelessly done and too much of some kinds of the food fed at one time, its good results are lost. Nothing can be more injurious to a chick than too much millet seed; while a little is good for them, too much is almost sure destruction. The proper amount of prepared beef is beneficial, too much quite the opposite. All these facts show the necessity of care in feeding.

BROODER CHICKS.

Chicks in the brooder may be fed the same as other chicks, but the welfare of the chicks in the brooder is entirely with those who care for them. There is no hen to call them to eat or to roost; they must be taught to go in and out of the brooder, to come and be fed, and to go in and out of the cold when chilled or when it rains; all this they must learn from the efforts of the one who attends to their wants. The entire process is artificial and the chick must be taught its part if we hope to be successful with them. The success with the brooder and the chicks depends largely upon the proper handling and the heating and ventilating of the brooder. If it is too hot in the hover it kills the chicks, if too cold they dwindle and die; either of these errors may bring on diarrhea. So much depends upon the care of the brooder that success or failure rests entirely with the operator.

Brooders should be cleaned each day the same as our own houses, if we hope for the best results. This is quite easy if we give them regular attention and sprinkle a little clean sand and some chaff about on the floor each time when we clean them out; if allowed to accumulate, the dirt will produce bad odors and this brings on disease that may destroy the chicks so fast as to discourage one. We are then inclined to blame the brooder when it is all our own fault. If we live in heated, dirty rooms we will become sick and die. It is the same with the chicks; they must have good care, food, ventilation, properly-kept quarters, and regular attention the same as any human creature.

CHICKS IN MAY.

The following words from the pen of an old hand at the business may add to the storehouse of knowledge of our readers:

"May sees more chicks hatched than any other month in the year. How many people there are who lack either the knowledge or interest to properly care for them when they are once out of the shell! Many may be able to hatch them with comparative ease, but the person who undergoes the many ordeals that usually arise, vexatious and otherwise, is surely a true lover of the feathered

tribe—a true and ardent fancier. All one's labor and money is thrown away, all interest evaporates, all hope shrivels, when the little fellows chirp a while and die. Many pay high prices for eggs, with glowing hopes and lofty expectations, but fail to obtain satisfactory results because they neglect giving required care, suitable quarters, and proper food. Such a termination tends to discourage the beginner.

"The work has only just begun when the chicks first make their appearance, so there is only one way to do to be successful, and that is to fully prepare for their proper care. Let me state right here that one of the worst mistakes made by poultrymen is the constant use of too young stock for breeding. It might be used one year, but do not continue it by each year selling your old stock. Chickens from old stock are stronger, more vigorous, a larger percentage can be raised, and they will make larger and better fowls when matured. To be successful with hatching requires the needful fertility of the eggs. To accomplish this one must adhere to nature as nearly as possible in caring for the breeding stock. Nature's summer diet is green stuff, insects, etc.

"Substitute for this, grain, seed, clover or alfalfa, green bone, etc., then you have shaped the foundation. The next step is to properly set the hen, which good judgment will dictate how to do. Place the nest in a quiet, out-of-the-way place where the hen will not be molested by the interference of other hens; and see that it is so arranged that in getting on she will not, with a jump, smash the eggs, which a large hen will do. Unless the hen is one that has had experience and can be trusted, it is best to place her in a separate stall or apartment where she can not get off unless permitted. Then each morning lift her off at a regular time for her feed, water, and dust-bath. Don't be too fearful of the eggs getting chilled, as they require a certain amount of air as well as heat. When a hen is too closely confined to the nest the result is sure to be a poor hatch of weak-legged, stunted, and sometimes blind chicks."

Grit and Shell.

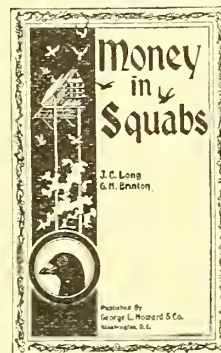
Too much can not be said about the full supply of grit and shell for our hens. These two elements of their food supply are fully as necessary as grain or any of the foods they have. Grit is the grinding mill or teeth of the hen; without grit they can not assimilate their food. This makes it absolutely necessary for them to have grit and plenty of it. In addition to this the hen can not finish her egg unless she has the shell-forming material from which to make the shell. If the hen has her full liberty she will find all these for herself,

but when confined she must be supplied with all these in abundance. A small box filled with grit, oyster-shell, and broken charcoal, where they can go to it at all times and help themselves is the best for them.

Some advocate animal charcoal made by burning bones. We prefer wood charcoal because it is as good an absorbent as the other, and quite as good for carbon. It is also free from the disagreeable odor that burnt bone has, which is liable to be transmitted to the egg and impart an unpleasant flavor. Of this we must be quite careful for the flavor of the egg is quickly tainted from any bad-flavored food the hen may eat. Spoiled beef scraps that smell old and rancid will quickly give to the unlaidd egg their own flavor if eaten by the hens; only good food of all kinds should be given poultry.

Money in Squabs.

A Practical Treatise on Raising Squabs for Profit.



The most interesting and the only practical book published on raising squabs for market, is our book entitled "Money in Squabs." This book has had a most generous sale during the past year, greatly exceeding the expectations of the publishers, and is, without doubt, the only reliable publication of its kind. "Money in Squabs" treats of every topic pertaining to pigeon raising, and is illustrated with the most modern and practical ideas for housing and breeding pigeons on a large as

well as a small scale. You will surely be interested in the industry after reading this book, and the information gained will be worth many times its cost to you. "Money in Squabs" contains chapters on the following interesting subjects:

Introductory, Breeding Houses, Breeding Stock, Distinguishing Sex, Food and Feeding, Water, Salt, Nesting Material, Manure, Breeding and Management, Dressing Squabs for Market, Shipping and Selling, Diseases of Pigeons—Canker, Cholera, Egg Bound, Enteritis, Going Light, Roup, Small Pox, Sudden Colds, Wing Disease, Worms— and Douglass Mixture. Some of the illustrations are: Full-page drawings of Homers, Runts, Dragons, and Duchesse Pigeons, Plans of Single, Double, and Continuous Houses for Breeding Squabs, Arrangement of Aviaries to a Garret Room and to a Barn, Plans for Building a House in the Back Yard, Plans of Nests, Perches, Mating Boxes, Bath Tubs, Drinking-Fountains, Salt-cat and Grit Boxes, etc., etc. This book is thoroughly practical, reliable, and of untold value to all who are interested in raising pigeons, for profit or pleasure. **Price, 50 Cents.**

GEO. E. HOWARD & CO.,

305 Tenth St. N. W., Washington, D. C.



A National Journal Devoted to Poultry and Pigeons.

Published the 1st of each Month.

Single Copies 5 cents.
Subscription 50 cents a Year in Advance.
Foreign Subscriptions, 75c a year in Advance.
Subscriptions in the District of Columbia, 75 Cents a Year in Advance.

ADVERTISING RATES.

Advertising rates per insertion 15 cents a line, agate measure, 14 lines to an inch. Discount card on application.

GEORGE E. HOWARD, Editor.

SUBSCRIBERS. When a subscriber finds this item marked, he will understand that his subscription has expired, and that he should renew promptly before the next issue is published.

ADVERTISERS Must have copy in for change of advertisement not later than the 5th of the month. Copy for new ads must be received by the 15th of the month to insure insertion.

TO AGENTS. We offer the most liberal terms to agents, and our plans and arrangements are so liberal this season that there will be money in acting as a representative of THE FEATHER. We want new agents in every neighborhood in which we are not already represented. It will pay you to write us at once and get our terms. Good profits are to be made from the sale of our publications, and it will pay you well to investigate. Write us for full particulars and free outfit.

Remittances should be made by postal money order, registered letter, bank draft, or express money order.

All remittances should be made payable to

GEO. E. HOWARD & CO.,

305 10th Street N. W.,

Washington, D. C.

Entered at the Post Office at Washington, D. C., as second-class matter.

MAY, 1902.

A New Club. A new specialty club is to be organized—the National Light Brahma Club—and the breeders of these fowls will no doubt welcome and support the movement now on foot. Mr. John L. Cost and Mr. C. P. Nettleton are assuming the duties of organizers, and have in charge the matters relating to the new organization. It is proposed to have the first meeting at the coming Hagerstown Show, when, if everything pans out as expected, there will be a magnificent class of the "lordly monarchs" on exhibition. There is no reason why the contemplated club should not be a great success, as the need of such a club has long been felt. The good work of the New England Light Brahma Club has been demonstrated to be of incalculable good to the breed. A national club with members in every State of the Union will have a larger scope of work, and the good to be brought about by such an organization will prove of lasting benefit to the fraternity. No bird is more worthy of support than the Light Brahma, and its friends and patrons should join with enthusiasm in making the new club the greatest of the kind in existence. THE FEATHER predicts a grand triumph for the promoters of the new club.

A Flattering Statement. An interesting fact concerning the profitability of the hen is shown in the detailed statement printed below, which was sent us by a subscriber and which we take pleasure in publishing in full. He says:

"Being associated with the law department of Philadelphia, and having to do with the suit of the Hospital for the Insane of the S. E. District of Pennsyl-

vania, Norristown, Pa., against the city of Philadelphia to recover \$52,000, I had an occasion to investigate their yearly reports which are published and distributed by them. I find a statement of their poultry plant and as I am interested in poultry and a subscriber to THE FEATHER, I send you the data thinking it might prove a good article for your readers. They tell me upon inquiring they do not keep any special breed, Brahmas, Cochins, Leghorns, Rocks, and Wyandottes all running together, cross breeding, etc.; never heard of trap-nests; same help looks after hogs, soap factory, poultry, etc. Their statement reads:"

1895. EXPENSES.	1895. RECEIPTS.
Live Poultry on hand Oct. 1, '94.....	Delivered to Store—
Feed..... 1,185.60	Eggs, 6,719 doz..... \$1,020.28
New Stock..... 1,043.20	Poultry, 5,401 lbs..... 814.40
Sundries..... 148.16	Manure, 99 bbls..... 99.00
Wages Paid..... 11.95	Cherries from yard, 516 lbs.. 41.28
	\$2,640.91
	Live Poultry on hand Sept. 30, '95..... 1,641.95
	\$3,616.91
Expenses.....	2,640.91
Profits.....	\$976.00

1896. EXPENSES.	1896. RECEIPTS.
Poultry on hand..... \$1,641.95	Eggs, 7,185½ doz..... \$1,069.19
Feed..... 1,006.43	Poultry, 10,532 lbs..... 1,501.95
New Stock..... 136.02	Manure..... 90.00
Sundries..... 35.07	Apples, Feathers, etc..... 69.50
Wages..... 299.33	
	\$3,118.80
	Live Poultry on hand Sept. 30, '96..... 1,614.20
	\$4,345.24
Expenses.....	3,118.80
Profits.....	\$1,226.44

1897. EXPENSES.	1897. RECEIPTS.
Poultry on hand Oct. 1, '96..... \$1,614.20	Eggs, 2,123 doz..... \$1,102.48
Feed..... 813.48	Poultry, 11,120½ lbs..... 1,270.52
New Stock..... 136.28	Manure..... 172.00
Sundries..... 52.89	Fruit and Feathers..... 127.01
Wages..... 324.67	
	\$2,941.52
	Live Poultry on hand Sept. 30, '97..... \$1,677.40
	\$4,349.41
Expenses.....	2,941.52
Profits.....	\$1,407.89

1898. EXPENSES.	1898. RECEIPTS.
Stock on hand Oct. 1, '97..... \$1,677.40	Eggs, 6,336 doz..... \$1,090.66
Feed..... 1,254.00	Poultry, 9,820 lbs..... 1,429.71
New Stock..... 201.74	Manure..... 66.00
Sundries..... 118.95	Fruit, Feathers, etc..... 112.80
Wages..... 337.33	Stock sold..... 8.84
	\$3,589.42
	Live Poultry on hand Sept. 30, '98..... 1,852.60
	\$4,801.57
Expenses.....	3,589.42
Profits.....	\$1,212.15

1899. EXPENSES.	1899. RECEIPTS.
Stock on hand Oct. 1, '98..... \$1,852.60	Eggs, 5,989 doz..... \$1,157.43
Feed..... 939.33	Poultry, 8,011½ lbs..... 1,099.41
New Stock..... 18.60	Apples, 120 bus..... 48.20
Sundries..... 79.17	Feathers, 76 lbs..... 38.00
Wages..... 277.33	Cherries, 1,130 lbs..... 169.50
	Manure..... 93.00
	Stock sold..... 15.29
	\$3,167.03
	Live Poultry on hand Sept. 30, '99..... 1,270.80
	\$4,148.66
Expenses.....	3,167.03
Profits.....	\$981.63

1900. EXPENSES.	1900. RECEIPTS.
Poultry on hand Oct. 1, '99..... \$1,270.80	Eggs, 7,926 doz..... \$1,333.81
Feed..... 1,027.34	Poultry, 8,011½ lbs..... 1,099.41
Live Stock..... 96.51	Apples, 120 bus..... 48.20
Coal..... 56.68	Feathers, 76 lbs..... 38.00
Sundries..... 53.12	Cherries, 1,130 lbs..... 169.50
Wages..... 190.14	Manure..... 93.00
	Stock sold..... 15.29
	\$2,694.59
	Live Poultry on hand Sept. 30, 1900..... 1,254.25
	\$4,051.46
Expenses.....	2,694.59
Profits.....	\$1,356.87

DO YOU WONDER WE ARE SHIPPING?

**Grand
Specials.
Special for
Western Buyers.**

A Chick Guaranteed to hatch from every egg from Exhibition Matings, or else replaced Free.

Ten per cent allowed on all egg orders of Five Dollars or over. This will ordinarily deliver purchase to customer without cost greater than Eastern purchasers.

DROP YOUR LINE NOW.

Even a lazy man moves quickly when he hears of good fishing.

S. C. WHITE LEGHORNS. My record at New York was never equalled. 10 superb matings of the Stay-White Beauties.
WHITE PLY. ROCKS. A clean sweep at Boston in the largest class ever shown. 8 grand matings of Rock-Shaped Winners.
WHITE WYANDOTTES. Winners at N. Y., Boston, Phila., etc. 8 matings of the Short, Chubby, Shapely Short.
S. C. BLACK MINORCAS. 1st chl. at Boston for 3 years. 6 elegant matings of the Glossy Bronze Greens.
BARRED PLY. ROCKS. 1st pullet at Boston. 8 magnificent matings of the Barred Winners.
LIGHT BRAHMAS. Unexcelled for standard points. 6 pens, the large kind, with feathers on their toes.

EGGS \$3 per set. (12); \$5 per 24; \$15 per 100.
Special Ckl. Matings, \$5 per set. (12) . . .

I also have over 3000 choice laying-bred stock of above varieties, line bred since 1888 for great egg-production from earliest maturing, fully developed stock and best yearlings from which I shall sell eggs at \$2 per 12; \$8 per 100; or chicks, \$15 per 100, right from the incubators. Any variety shipped in safety within 24 hours' travel. Elegant descriptive catalogue free.

ELM POULTRY YARDS, Box F, Hartford, Conn.

This bit of information is something to be appreciated and it is an evident fact that the poultry department was more than self-sustaining. There are thousands of men laboring hard in this world for a livelihood, who do not make an income equal to the profits of this poultry department. It will be noticed that the various breeds of fowls are allowed to run together without any reckoning. It is not an experimental farm and no effort is exerted to produce phenomenal results. However, it is a good lesson to all, and should be more than an incentive to those who seek to earn a living with hens.

Don't Fool Yourselfes.

Frequently we run across a fellow who is discouraged with the business and finds considerable fault with his fowls, but never with himself. Oh no, according to him he has done his part by his birds, but they fail to give him just returns. To this class belong those fellows who fail utterly in producing birds up to standard weight in time for the show season, and attribute their failures to the fowls themselves and not to their methods of feeding and attention. These are the fellows who use a three-quarter ration for economy's sake and produce undersized birds for their own sake. They are, also, the same who feed one morning at six o'clock and the next morning at ten, and sometimes forget to feed at all. They are careless and haphazard in all their doings, and forget absolutely the demands of the poultry business, and for that matter any other business, to make a success. No one can hope to succeed unless they give careful attention to the business, and study the details so essential in making the poultry business a paying investment. It is the same old story. Many go on year after year trying to deceive themselves into the belief that they are doing everything possible to succeed, while at the same time they see and know that others who are their successful competitors are doing much better than they. It is so easy to fool one's self into such a belief, especially if one is careless and indifferent to things around one. It is never too late to learn the lesson, and the sooner those fellows who are careless with their fowls learn it the better.

"I think THE FEATHER is one of the best poultry papers I have ever seen. Your collection of colored supplements pleases me very much."—Charles C. Heffner, Albany, N. Y.

"THE FEATHER for September has for a front piece

a beautiful colored plate of a Barred Plymouth Rock male, printed in life colors in the publishers' best style. Truly this colored cover is an inestimable improvement to this already splendid paper."—*Australian Hen*, Sydney, Australia.

Edward I. Fisk, Franklin Park, Mass., says: "THE FEATHER is the best paper I have ever taken. It gives me good satisfaction and tells me the points of a fowl."

"As THE FEATHER has given us good results in advertising, we will be pleased to place you on our list."—Sure Hatch Incubator Co., Clay Centre, Neb.

Very Satisfactory.

Mr. T. E. Orr, Beaver Hill Farm, Beaver, Pa., receives many flattering testimonials like the following:
Luverne, Minn., Feb. 15, 1902.

BEAVER HILL FARM, Beaver, Pa.:

The Silver Wyandotte cockerel arrived here this noon in fine shape and is entirely satisfactory. There is no laziness about him, for he went right to scratching.

Very respectfully,

MAX H. VOELZ.

PERFECTED INCUBATION

IS TO BE FOUND IN OUR

..Incubators and Brooders..

STAR INCUBATORS are all double cased, which provides a dead-air space between the cases, and are well lined and packed, thus insuring the incubator holding its temperature in any country where poultry is raised. Every machine has a nursery under the tray—a most valuable feature.

STAR BROODERS are built upon the same line of excellence of our incubators. Nothing but the very best of everything is used in their construction, and we believe our models to be perfect. It is an old saying that a chick hatched is surely raised in a Star Brooder. We are not satisfied to sell you one incubator or one brooder, but to make our machines so that they give such satisfaction that each customer comes to us for his second and third.

Incubators, \$6 Up.

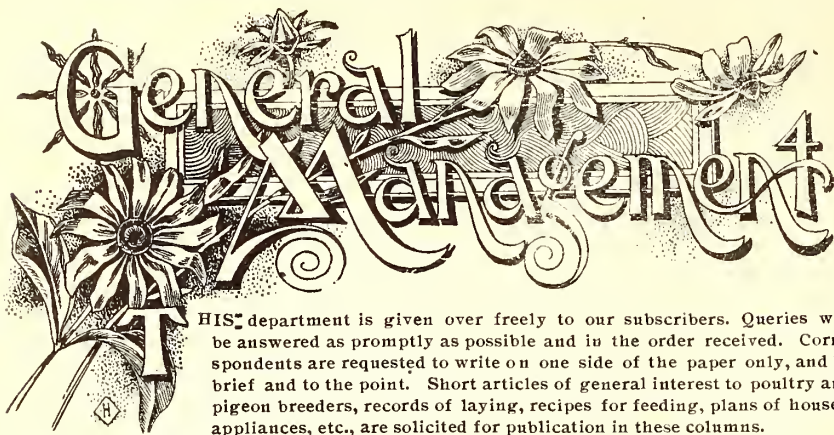
Brooders, \$5 Up.

SEND FOR CATALOGUE

**A Full Line of Poultry Supplies
and Appliances.**

SOUTHERN POULTRY SUPPLY CO.,

429 11th St. N. W., Washington, D. C.



HIS department is given over freely to our subscribers. Queries will be answered as promptly as possible and in the order received. Correspondents are requested to write on one side of the paper only, and be brief and to the point. Short articles of general interest to poultry and pigeon breeders, records of laying, recipes for feeding, plans of houses, appliances, etc., are solicited for publication in these columns.

Advertising Fancy Breeds.

"The breeding of poultry may be considered a peculiar business. Its development has made it sufficiently important to have no less than fifty periodicals directly devoted to it, while many publications give a whole department to that branch. These fifty are scattered throughout the whole land, and in Canada there are a few more. I restrict myself to fancy grades, breeding none of the ordinary kind. But I also breed fancy pigeons, dogs, sheep, and swine," said Mr. W. J. Stanton, of 56 Dey Street, New York, to a *Printer's Ink* reporter. "I sell my stock entirely through advertising, for I consider exhibiting my stock at shows and fairs advertising, just as much as taking space in papers or sending out circulars.

"My business is very distinct from that of breeding the ordinary varieties.—Common fowls are sold by weight—by the pound. Fancy grades, however, are sold by the piece—either one bird or a pair, etc. Their price depends entirely upon how nearly they come to the standard of perfection. Laymen are usually thunderstruck when asking the price of a pair they may indicate.

"Advertising is the soul of my business. I have been in the business since boyhood, and when I started for myself, in 1876, I advertised the fact. My location then was 29 Church Street, around the corner, now the site of the great Havemeyer Building. But the business, then in its infancy, allowed of only moderate advertising outlay. There were but two or three poultry papers and even then few cared to go outside of the narrow lines of these. My only departure was in a line of foreign dailies and weeklies, and these, which were South American, Mexican and West Indian publications, paid me promptly, largely, and continually. I built up a splendid trade, for instance, in Kingston, Jamaica. From the beginning the foreign and the domestic trade differed essentially. With foreigners the breeding of fancy fowls was a fad. People in all walks of life were among my domestic customers.

"Though the trade has developed enormously, there is one fundamental fact which has not changed and which is reflected strikingly even in the advertising done to-day in poultry breeding. This is that there are very few concerns of great magnitude.

"The fact, however, remains that though the volume of the business done is enormous, it is divided amongst a host of small breeders. This makes the trade largely local, and the advertising, even when the aggregate is large, small individually. You will notice in most of the poultry papers very few advertisements running to large space. But you will see a great many small advertisements. My own advertisements, which are much larger than those of the average dealer, run to about two inches single column displayed.

"I confine my advertising almost entirely to the poultry papers. If I did not, I think that I would be sure to have my trouble for my pains. For the public is not educated on poultry matters, and the dealer who went into general publications would find it absolutely essential to educate the public or he would be sure to lose. As I do not care to go to the trouble of the former, I continue on the lines which I have so long found efficient. I take my regular space in such trade papers as the *American Fancier*, of Johnstown, N. Y.; *The Feather*, of Washington, D. C.; the *Practical Poultryman* and *Star*, of Whitney Point,

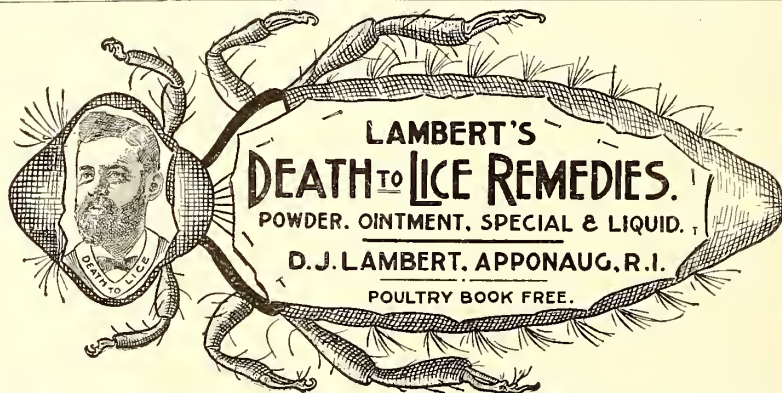
N. Y.; the *Homing Exchange*, of Vine-land, N. J.; the *Pigeon News*, of Boston, Mass. You ask me about reading notices? I never buy them, and I get them very infrequently. But I believe they are more effective than even display advertisements. Reading notices are given less sparingly around show times. The prize-winners are frequently mentioned, and even the daily papers in the city at which the show may be held give such notices at these times. The more prominent the breeder the larger the notice.

"The poultry shows and county fairs are just as essential an advertisement for the successful poultry-breeder as the trade papers are. In fact, these two forces are meant to and do supplement each other. There are no better means. Salesmen are not practical. If we had no shows or fairs there would be no way of building up a reputation and making comparisons with other breeders. No breeder shrinks from a show, and there are so many breeds of birds that there is room for all, even though the number is great. A man in order to succeed in poultry breeding must give it concentrated attention, and the details are so great that every fowl requires undivided attention.

"The poultry-breeder usually follows county fairs and poultry shows from late summer until the next spring, exhibiting right along.

"I have not been exhibiting of late years, but this has not been to my disadvantage, for having been appointed an official judge on fancy breeds the prestige thus won has offset my disqualification. This judgeship is the best kind of an advertisement.

"To obtain customers among breeders and fanciers I find ordinary circularizing the best method. My advertisement appeals only to private customers. But with a good list of fanciers' names I have always found my circularizing pays. I make no attempt to get up fancy literature—no expensive printing and no striking wording. Simply a plain tale



DON'T WRITE ME...

Unless you want eggs that will hatch good, strong, healthy chicks from stock that has won highest honors in hot competition all over the country. Price, \$2 per setting; 2 settings, \$3; 3 settings, \$4. Incubator eggs, \$5 per 100, from Barred and White Plymouth Rocks, White Wyandottes, Light Brahmas, S. C. Rhode Island Reds, and Pekin Ducks. For further particulars address

The Goodrich Poultry Farm,

Lock Box 5, West Duxbury, Mass.

B. F. GOODRICH, Proprietor.

Valley Farm is at Simsbury, Hartford Co., Conn. Stock, Eggs.

plainly told. My lists I consider the best to be obtained from any source, and yet they cost very little. I get the names from Rackham's Poultry Directory. That directory I have always found thoroughly reliable.

"I have tried advertising in the daily papers, simply as an experiment. I have found as a result that advertising fancy breeds of chickens in these mediums is an utter failure. It is impossible to get the public to appreciate their worth."

The Buff Breeds.

'Tis pleasing to notice the grand strides forward that have been made in the buff breeds. From the Cochin to the little bantams all have gone forward so much that one must stop to consider how they can be much better. The day has gone when the colors of a light-tinted Rhode Island Red will pass muster for a Buff Plymouth Rock or Buff Wyandotte. Hundreds of Buff Plymouth Rocks, Wyandottes, and Leghorns are seen at our winter shows that have buff color fully equal to the finest Cochins and breed characteristics equal to any of the name. At Philadelphia, Boston, and New York the displays of these varieties were most attractive. The Buff Wyandotte cockerel that won first at Philadelphia went to Boston and won second; the one that was second at Philadelphia won first at New York. The one had improved, the other had not. If you will consider size, shape, and color combined the cockerel that won first at New York is the best of the year of his kind.

The cockerel that won first at Boston was a grand, fine bird in many ways, but rather undersize. The one that was called the very best of the year, went down and out for a few stubs on his shanks. Neither of these had the size, the bone, nor the close condensed color of the New York cockerel, but they did have one even shade of buff from tip to tip, including tail and wings, and the shade of color was good but not quite as dense as we like to see it on a buff fowl. For the true Wyandotte shape the cock-bird in the Buff Wyandotte class that won first at New York had it to perfection; although a little small, he was, to our notion, the best shaped Wyandotte in the show, and for quality through and through we must pay special credit to the pen of Buff Wyandottes and Buff Plymouth Rocks that won first at New York.

At Boston the grand Buff Plymouth Rocks showed by Millville Poultry Company were a surprise in quality to all who saw them; as a tribute to their quality it is only necessary to say that they won the sweepstake specials in the very strongest class of the year. These birds are full of quality in all sections and directions. Nothing better can be found of their kind, we presume. While Millville was doing the trick at Boston, Riverside Farm was doing the same at New York on all their varieties, and they did splendidly. It was their pen of Buff Wyandottes that attracted so much attention in the show, and, as usual, the bullets from this farm won high honors.

Valley Farm, White and Barred Rocks
Houdans, Faverolles,

In Buff Leghorns the display this winter has gone ahead of all former years. They have the Leghorn type, finish, and appearance with good, even buff color through and through. In addition to this, size is better than before, and the combs and lobes of both males and females much better than ever before. All these improvements are so noticeable, so attractive, as well as pleasing to all who love to see a beautiful fowl.

The Cochins and Cochin Bantams in Buffs have done so well the past season that we shall take special pains and pleasure to mention this improvement. All along the line from Buffalo at the Pan-American to the close at Chicago and Pittsburg, has the display of these long-time favorites been better than ever, both in number and quality. Size, shape, and all Cochin qualities are better and better each winter until the wonder is where the final finish will be.

These improvements show how strong is the desire for improvement. Every one seeks to out-do the other in every way, and this desire for the better quality pushes all on to a higher plane of quality, and in this way we have the greater improvement. In addition to this there is that strong desire to produce a better buff fowl than has ever been produced in the world, and surely this winter has brought them by far better than ever before. May another year do even better in the line of improvement, not only with these but with all.

White Cochins.

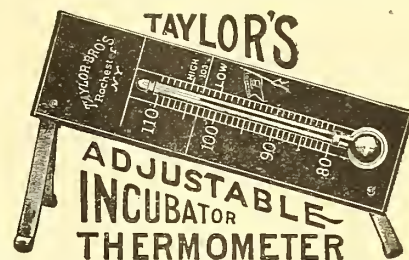
This variety of Cochins has gained under careful hands one of the positions of honor in the show-room. It was a pleasure this fall and winter to see the very large classes of them at the Pan-American, and at the Philadelphia, New York, and Boston Shows. The quality of the birds shown was fully equal to any of the Cochins: shape, size, feather, finish and color all combined to a surprising extent, as many said they by far excelled anything they had hoped to see in them. This is as it should be in all varieties. No one variety of a breed should be allowed to out-class another. All should be kept along on a par, one with the other, and no one variety or one man should have all the honor for quality.

The evidence that comes from Canada, Chicago, so far west as Kansas City, and south to Charleston, tells of better quality than has ever been shown before. This tells us that no one locality or people can have it all of the best. That quality has gained all along the line and in all breeds and varieties is the best evidence of better things, and of all none have gone ahead so fast as the White Cochins and the Buff Plymouth Rocks.

Golden Penciled Wyandottes.

The restless American is ever looking for something better. Hence about every decade, or oftener, a new breed of fowls is offered, which claims a goodly share of the patronage of those not entirely satisfied with the older varieties.

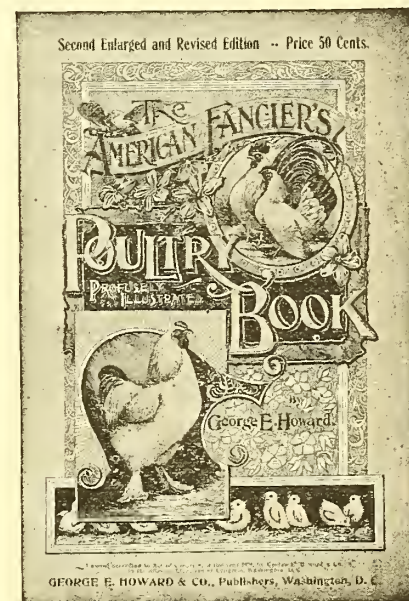
At the present time the Penciled Wyandottes are calling much attention to themselves as a beautiful and useful breed. The Golden Penciled, clad



BY MAIL SAFELY PACKED.
75 CTS. EACH. 3 FOR \$1.50.
TAYLOR BROS. CO.
35 Elizabeth St., Rochester, N. Y.

in the garb of the Partridge Cochin, are in shape and size Wyandottes, possessing all the good points of the Wyandotte family. Therefore to one wishing an all-around useful fowl with the coloring of the Partridge Cochin these new Wyandottes strongly appeal. They are found to be very precocious; in fact, are inclined to lay at too early an age for their proper development. But these early layers will continue to grow after laying and finally reach a fair Wyandotte

The American Fancier's Poultry Book.



"The American Fancier's Poultry Book" is one of the best books we have ever offered to the readers of THE FEATHER. It is a grand book, and has been praised by all who have seen it. It is a practical book, and should be in the home of each and every lover of poultry. No matter how much you may know about poultry, you will be certain to find something new in its pages. To the novice nothing better could possibly be recommended. This great book contains illustrated chapters on The Poultry Industry, General Management, The Egg, Incubation, The Chick, Recipes for Feeding, Feeding for Eggs, House Building, Keeping Eggs, Caponizing, Diseases, The Standard Breeds of Poultry, The American Class, Asiatic Class, Mediterranean Class, Polish Class, Hamburg Class, French Class, English Class, Game and Game Bantam Class, Bantam Class—Other Than Game, Miscellaneous Class, Turkeys, Ducks, Geese, and Swans. **Price, 50 Cents.**

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85c per 100 sq. feet with caps and nails.
In use by thousands of poultrymen. For samples and circular address

SWAN'S EXTRA HEAVY FELT ROOFING.

The A. F. SWAN CO., 116 Nassau St., New York.

dotte size. There are no general-purpose fowls excelling them as layers and mothers, but as mere egg machines they are not the equal of the Leghorns, the Minorcas, the Hamburgs, or the Sumatras; that is, the above-named breeds having the freedom they require and the proper feeding have not been found lacking in excellence in this respect. But for the purposes that one usually keeps poultry—eggs, meat, and pleasure—the new Wyandottes have no superior in most, if not every part of our country.

They are very hardy, active foragers, rapid growers, early layers, and frequently lay twelve months in the year without much protection. About all they require is a roof to keep them dry at night and boards on the north and west sides of their houses to keep off the wind that now and then blows keenly from those quarters. If the farmers will treat these fowls in a proper way they will find them as close to the ideal fowl as has yet been fashioned by modern breeders' skill.—J. T. LITTLETON.

Standard for Buff Turkeys.

(Issued by the National Buff Turkey Club.)

CHARACTERISTICS.

Buff Turkeys have beautiful plumage, compact bodied and symmetrical in form. They mature early, are easily fattened, domestic in their habits, and not given to roaming. They have a deep olive skin, devoid of pin-feathers, and when dressed are plump and showy. A dealer in fowls says: "There are enough Buff Turkeys going into the Louisville market to injure the trade in other turkeys; that the Buffs show a deep yellow skin when dressed, free from bloody pin-feathers, compact frame and plump body." The mature size of the males is from 33 to 40 lbs., of the hens 18 to 26 lbs.

STANDARD OF EXCELLENCE.

Disqualifications—Decidedly wry tails, crooked backs, cocks weighing less than 20 pounds; hens weighing less than 12 pounds.

Standard Weights—Cocks, 28 pounds; cockerels 18 pounds; hens 18 pounds; pullets 12 pounds.

Shape of Male and Female—Head long, broad and carunculated.

Beak—Strong, curved, well set in head.

Eyes—Bright, clear, dark hazel.

Throat-Wattles—Heavily carunculated.

Neck—Long and well curved.

Back—Slightly rising from the neck to center of body and then descending in a graceful curve to the tail.

Breast—Broad and full.

Body and Fluff—Body long and deep through the center and handsomely rounded, fluff short.

Wings—Large and powerful, tail medium length.

Valley Farm White Rocks won half the Pan firsts. Eggs.

Thighs—Large and stout, shanks large and strong.

Toes—Straight, medium length and strong.

Color Head—Rich red, changeable to bluish-white.

Beak—Bluish-white.

Throat-Wattles—Rich red, changeable to bluish-white.

Shanks—Flesh-color. Toes same as shanks.

Plumage—Pure buff throughout. The wings often being of a lighter shade. The entire plumage of the male is often darker than that of the female.—H. F. WORK, Secretary, New Washington, Ind.

Dark Brahmas.

The high position gained by the Dark Brahmas within the past few years is largely due to the efforts of a few; the most prominent among these is the time-honored veteran, Mr. Philander Williams, so well known the world over as one of the most successful fanciers of the world. The quality of the Dark Brahmas shown the past winter has by far surpassed anything of the kind seen since the gladiators in this line formerly gathered at Madison Square Garden to contend for the honors. In those days one of the most attractive classes was the Dark Brahmas. Well can we remember the long line of these beautiful fowls, and none can be more attractive than the well-finished Dark Brahma pullet.

It is a pleasure to note that there is a possibility of again seeing such a gathering in the Garden. We have seen the White Cochins come in such number and of such quality as to rival all other Cochins, and we hope to see the Dark Brahmas rival the Light in both quality and number. There is no reason why these fowls should not hold a high position, for they are as good as they are beautiful, they lay well, grow fast, are very easy to keep, and they make fine table poultry. What more can we look for in a breed?

American Buff Leghorn Club.

The secretary of the American Buff Leghorn Club has made his annual report to the club, showing that during the past year the club has more than tripled in membership. It has been some five years since it has issued a catalogue, and the members and officers are now at work, expecting to issue one of the neatest and most up-to-date catalogues gotten out by a specialty club. It will be a book that any breeder will keep for many years, and it will be on Buff Leghorns only. It will contain a list of members, and articles by well-known and most successful breeders. The club is very anxious to enlist every breeder of this popular variety into their ranks before the catalogue is out. Send your name and \$1 at once to the secretary or president, and they will tell you all

about it, and do the rest.—CHAS. L. THAYER, president, 7038 Union Avenue, Chicago, Ill.; GEO. S. BARNES, secretary, Battle Creek, Mich.

BLACK ORPINGTONS

Pride of England Strain.

Won four 1sts, five 2ds, and one 3d prizes at Trenton, Philadelphia, and New York.

Eggs, \$3 per Setting of 13.

W. Wyandotte and B. Langshan Eggs, \$1.25 per 13.

CHAS. E. FABER, Plainfield, N. J.



DON'T SET HENS

the same old way when our new plan beats it 10 times. 100 Egg Hatcher Costs Only \$2. Over 94,000 in use. 100-year test! 5000 agents wanted for 1902 either sex. Pleasant work. Big profits. Catalog and 10c Egg Formula FREE if you write today. Natural Hen Incubator Co., B 9, Columbus, Neb.



HAIR ON FACE, NECK, AND ARMS instantly removed without the slightest inconvenience, pain, or injury to the most delicate skin, by using our new discovery.

"PEERLESS CHARM." It is sent by mail securely sealed with full instructions for use, on receipt of \$1. If it fails to satisfy you, we will promptly refund your money. Address,

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Just Published.

The Latest Book on Homing Pigeons.



The demand for a perfectly reliable and practical book on the "feathered race-horse," has prompted us to publish our new book, "The Homing Pigeon." This book is 16mo in size, printed on excellent paper, and completely illustrated from cover to cover. It is a complete book in every way, and treats thoroughly on the history of the Homing Pigeon, breeding, training, and flying, as well as the many handy and business uses for which these birds may be used. It is

fascinating to breed Homing Pigeons, besides being a most practical study. Every detail is told in this book in a clear, concise, and explanatory manner; and the various writers therein have given us a mine of information. The reader is taught all about the selection of good breeders, the breeding of youngsters for racing qualities, training them to the best advantage; also the rules and conditions for flying birds in races, as well as for business purposes. It is a complete book in every way. Lovers of the Homing Pigeon can not well do without a copy of this excellent little book. Price, 25 Cents.

GEO. E. HOWARD & CO.,

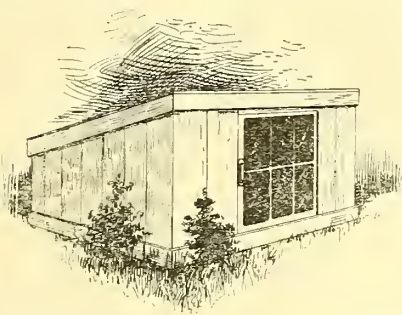
305 Tenth St. N. W., Washington, D. C.

An Inexpensive Poultry Plant.

Editor The Feather:

The accompanying illustration is from a photograph of one of the houses in which I have raised my chickens and kept a few fowls in winter for several years. Every thing considered, I think, for a mild climate, where there is but little snow, they will answer every purpose required for poultry, just as well as larger and more expensive buildings. The first I had made were for home use, from waste pieces, for ducks. They were so handy to move about and attractive in appearance, that I decided to catalogue them with my other buildings.

It is not an infrequent occurrence for country boys in New England to pay their way through college by raising poultry in summer. Why should not a girl do this as well? Surely, raising small chickens has always been considered woman's work on the farm. If she must of necessity, or chooses so to do, a woman can readily make these small coops herself. Of course, she will prefer soft lumber, that works easily, and, if battened with laths on the inside, unmatched lumber is just as good, and much easier and less perplexing for a beginner to use.



The roof should be covered with roofing material. If a part of the roof is hinged, to lift up at the back, it will be of great assistance in caring for the chickens. Make it waterproof by covering the crack, where it is hinged, with painted cloth, and nailing a cleat on each end of the lid so that when closed it will cover where the lid and sides of the coop join. It should also be hooked down close at the back.

The little coop illustrated is $3\frac{1}{2}$ ft. wide, 5 ft. long, $2\frac{1}{2}$ ft. high in front, and $1\frac{1}{2}$ ft. at the back, and will shelter, until fully grown, fifty chickens or eight or ten hens through the winter. With plenty of room, it is best without a floor, and should be moved each day on to fresh ground. For winter use lay a wide board underneath the roost, and, occasionally, add new litter. Where free range is impossible, make a portable run by covering a frame-work made of 1x2 in. furring with wire netting.

If hens are used for brooders, make a row of apartments about one foot square, at the back, by tacking boards of the same size about one foot apart with laths—one on each edge at the bottom, and one across the top in the middle. Give each hen one of these apartments, when she is through hatching, or, better yet, set her in them at the start, and she will take it herself every night. Where the chickens are

Valley Farm, Simsbury, Conn., now has some bargains. Eggs.

of the same breed, the hens will not pick each other's chickens much; but this can be avoided by removing the chicks from the nests first, and then put all the hens in the coop, and give them the chicks all in a bunch. The hens will mother them all then, and abide in peace and prosperity together.

—EVA A. ISHAM.

Black and White Minorcas.

The Minorca fowl has gained a very strong position as an egg-producer and a show fowl within a very few years. For quite a while the Black Minorcas only had a prominent position with us, but the White Minorca has come very strongly to the front and both the Black and White variety have increased in size and have improved very much in color. It is not unusual at the present time to see some of them almost double the size that used to be prevalent with the breed.

The display of both Black and White Minorcas at the Pan-American in October opened the ball for a lively scene all along the line. The Minorca Club meeting at Philadelphia brought together the largest and finest display that has yet been made; and it was quite surprising so soon after this meeting to see the large number shown at both New York and Boston. The White Minorcas, all large and of better quality than have been shown before were shown the past winter with size, shape, and color all very much improved, and it is pleasant to note the popularity gained by Minorca eggs throughout the country. Quite a number of Minorca breeders all over the East have regular sales throughout the year, furnishing Minorca eggs at very good prices. The large size and fine quality of these eggs are what attract; and we shall not be surprised in the near future to see whole market-egg plants equipped with one of these varieties.

The inclination to reduce the size of comb of this breed will be a benefit to them. The unnaturally large combs of some of them demand too much of the food consumed to supply the blood necessary for sustaining them. It is quite interesting to note that the fowls with the smaller combs produce more eggs than those with the overly large combs; it is also conceded that the overly large females do not produce as large a number of eggs as do those of the medium size. All these can be cultivated within the lines of reason as well as the increased egg-production. In addition to the Single Comb varieties, there are also bred some double or Rose Comb Black as well as White Minorcas. In this the Blacks are considerably in the lead, and many of these have been shown in the past two or three winters that rival the Single Comb varieties. In all Minorca demands the display of Black Rose Combs at both Philadelphia and Boston was an interesting feature of the Mediterranean classes and very large and admired.

A Good Record.

Editor The Feather:

We have noticed a great deal about infertile eggs this season. So far we have placed thirty settings of eggs which we have heard from, and will give you an idea how they have been turning out. One party got thirty eggs, two of them were broken by hens, and they got twenty-six strong chicks out of the twenty-eight eggs. Another got thirteen Indian Game, fifteen Brown



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WATERTOWN, N. Y.

SINGLY, 75 CTS. 3 FOR \$1.50.

Leghorn, and fourteen Buff Leghorn, and hatched as follows: Twelve out of thirteen; fourteen out of fifteen, and twelve out of fourteen. These are only a few of the many we have heard from, and the worst report we have had was eleven chicks out of fifteen eggs.

We believe in proper feeding and good, warm quarters, kept perfectly clean. We will, at any time, cheerfully send to any reader of THE FEATHER our method of feeding for fertile eggs.

—BRISH BROS.

The Feather's ART PICTURES.

Our collection of beautiful poultry pictures is unexcelled. We have prepared these plates at considerable cost and do not hesitate in saying that they are the best art pictures of poultry ever published. Many thousands of them have been sold, and everyone interested in poultry should have them in their homes. They are printed on best quality of paper and suitable for framing. All lovers of poultry should by all means possess these beautiful art pictures. Following is a list of the pictures on hand in colors and half-tone engraving. These are sold in sets of six for 50 cents. Select any six of the list you may wish for 50 cents, or a set of twelve for 75 cents. When ordering a set be sure to give the numbers of the ones you want.

List of Color Pictures.

1. Light Brahmas. 2. Trio White Wyandottes. 3. Pair White Wyandottes. 4. White Wyandotte Male. 5. White Wyandotte Female. 6. Buff Wyandotte Male. 7. Buff Wyandotte Female. 8. Silver Laced Wyandotte Male. 9. Silver Laced Wyandotte Female. 10. Golden Laced Wyandotte Male. 11. Golden Laced Wyandotte Female. 12. Partridge Wyandotte Male. 13. Partridge Wyandotte Female. 14. Barred Plymouth Rock Male. 15. Barred Plymouth Rock Female. 16. Buff Plymouth Rock Male. 17. Buff Plymouth Rock Female. 18. White Plymouth Rock Male. 19. White Plymouth Rock Female. 20. Black Minorca Male. 21. Black Minorca Female. 22. Black Langshan Male.

Half-tone Pictures.

23. Barred Plymouth Rock-Male. 24. Pair Black Langshans. 25. Pair Buff Leghorns. 26. S. C. Brown Leghorn Male. 27. Pair Silver Spangled Hamburgs. 28. Pair White Crested Black Polish. 29. Pair Barred Plymouth Rocks. 30. Buff Cochins Female.

Light Brahma Special.

This new picture is our greatest triumph. It is $12\frac{1}{2} \times 18\frac{1}{2}$ inches and is most attractive for framing. The plate is what is known in art as a duograph, and is a most perfect representation of steel-plate engraving. The subject of the picture appeals to all lovers of poultry, and makes a picture that will be appreciated in any home. The scene is a beautiful girl standing in the midst of a flock of Standard Light Brahmas, with the farm-house and orchard in the distance. It is a sunshiny scene and appeals to the eye at sight. This great picture securely mailed in tube for 25 cents each, five for \$1. Larger quantities at special prices.

Framing Pictures.

We have made arrangements for framing THE FEATHER'S ART PICTURES at greatly reduced prices. We have a beautiful gold frame, $10\frac{1}{2} \times 14$ inches, suitable for the above pictures, with mat and glass complete for 75 cents each.

When making remittances do not send stamps, but send P. O. Money Order, Express Money Order, Registered Letter, or Bank Draft.

GEO. E. HOWARD & CO.,

305 10th St. N. W., Washington, D. C.

Questions and Answers

GRINDING OYSTER-SHELLS.

Q. Please tell me if I should cook oyster-shells before grinding. I have no idea whether they are cooked or not.—A READER, Philadelphia, Pa.

A. For home use put the oyster-shells in the fire, as it makes them more easy to mash up for the fowls. That which is sold in the stores is ground in heavy mills or stone crushers made for the purpose. You can buy a quart of ground oyster-shell for a few cents, and it is broken just as the fowls like it. Whole oyster-shells are of no use to the fowls.

DEMAND FOR OYSTER-SHELLS.

Q. Is there any demand for oyster-shells among poultry fanciers? I have a good many shells and want to know if you thought I would be able to dispose of them by advertising in THE FEATHER. I would be able to deliver f. o. b. at railroad depot for 50 cents a barrel; this not ground, but in the natural state.—A. F. B., Asbury Park, N. J.

A. Oyster-shells are of no use for poultry, unless ground as small as grains of corn or wheat. If you can grind them up nicely as they are sold in the feed stores you can sell them, but not otherwise. Better try to sell your shells to some one who makes ground oyster-shell.

HOW MUCH ROOM?

Q. I am a subscriber to THE FEATHER and will be very much obliged if you will let me know through its columns if pens 5x8 are large enough to keep ten birds (Leghorns) housed; this is including scratching-shed. Is not three square feet supposed to be the proper allowance per bird or fowl?—E. M. F., Toronto, Canada.

A. The rule is to allow from four to eight square feet of house-room for each hen. Pens 5x8 would be forty square feet or just four square feet for each hen. If part of this must go for scratching-shed it will not make either much of a house or much of a shed. For your cold climate better made the house 8x10; have the living or roosting-part 6x8, and the scratching-shed 4x8. In this way the warm room would be large enough for them to live in very cold days, and if the floor of this is covered with straw they can hunt and dig in this for grain and do well, and only need to go out into the scratching-shed when the sun shines and the weather is not the very coldest. For Leghorns this will be by far the best plan. Build with a low roof, put in a high, narrow window so as not to have too much glass, as that is bad, it draws the cold. Better get a U. S. Government Bulletin, as published in THE FEATHER of November last, entitled "Poultry Raising on the Farm."

CANKER AND CHICKEN-POX.

Q. I am a subscriber to your paper, and noticing the question column, have a question to ask that if it can be answered it would be greatly appreciated. First, the chick starts to droop and refuses to eat, and by examining I find a hard shell on the end of the tongue, which if left, the tongue and the whole mouth inside will get covered with a festery skin, and it will go so far as to grow out of the corners of the mouth and form a hard scab which increases

as it does inside the mouth. Also notice that the smaller ones that are not quite feathered show some small scabs about the body. A name for this disease and a remedy will be of great benefit.—J. C. M., Baltimore, Md.

A. The trouble that comes inside the mouth is canker. This comes from dirt in and about their eating and drinking places. Some call this pip; it is very painful and often extends to the eyes. Water and glycerine is good to rub on or over the sore places. The other trouble may be chicken-pox; if so, it is very bad and hard to cure. You should have a copy of Salmon's "Diseases of Poultry."

BEST IN CONFINEMENT.

Q. Having but recently become interested in poultry, my experience in this line is but small; hence, I write you asking if you will please favor me with your view as to what kind is best adapted to confinement, as required in my case. If more than one kind be kept, should each be kept to itself?—L. L., Westfield, Pa.

A. Any of the varieties of the Plymouth Rocks or Wyandottes will be best suited for your purpose, as they all bear confinement well and give good returns. It will be far better for you to start with one variety only, as that is about as much as one person can handle successfully. Each variety should be kept to themselves; best never to mix them up.

MILKY LIQUID IN BOILED EGG.

Q. I have some nice S. C. White Leghorns, and occasionally find a milky liquid in an egg which boiling does not

congeal as it does the white of the egg. There is nothing disagreeable about it, but to me it does not seem right and gives me the idea that I am not treating my flock properly. I have asked many poultrymen about it, but while some acknowledged observing it none could explain or even venture an opinion whether it was right or wrong. Can you enlighten me through THE FEATHER or personally, and oblige?—C. C. F., Ashbourne, Pa.

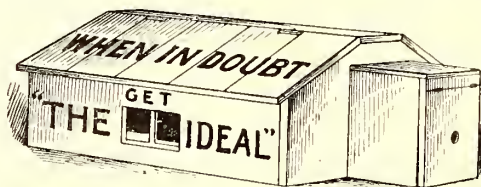
A. No one can tell absolutely what causes this trouble. The supposition is that by some means or other too large a per cent of water gets into the egg while passing through the oviduct. No harm can come of it; do not think it is your fault. Sometimes an egg that is very cold may be put to boil with a small amount of the shell or the egg above the water-line, and if left in only a short time a portion of the albumen above the water-line may not congeal and may have the appearance you mention.

PEEP-O-DAY, is the most successful brooder in America. Our \$5 Brooder is the best one made. Portable Poultry and Brooder-Houses, etc. We sell the metallic parts and plans to make our brooders so that you can save on freight charges. Catalogue free. E. F. HODGSON, Box 60, Dover, Mass.



Barred Ply. Rocks Exclusively.

Line-bred for years. Winners at the Leading Shows. Eggs, from fine selected matings that will produce winners, \$2 per setting. Satisfaction Guaranteed. D. BROWN, Stowe, Pa.



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Save Your Fowls.

Sick fowls don't pay. Fowls become healthy and stay healthy when

RUST'S HAVENS CLIMAX POWDER

is fed. It gives new blood, new life and stamina. Their eggs hatch vigorous chicks. It prevents and cures Gapes, Fowl Cholera, and other poultry diseases. It is not a food but a genuine preventive and cure and always gives satisfaction.

I cannot say too much in praise of Rust's Havens Climax Powder.—Philander Williams, Taunton, Mass.

I always keep it in my poultry house.—Joseph Hilldorfer, Champion Breeder of Black Minorcas 1901, Allegheny, Pa.

It has no equal for fowls.—Geo. A. Phillips, Poultry Breeder, Easton, Md.

A sure cure for Cholera and preventive of Gapes.—O. K. Taylor, Raleigh, N. C.

I have several thousand hens and chickens and use it largely.—J. W. Coombs, Little Compton, R.I.

It cured my fowls of Cholera.—L. N. Beckner, Cleveland, Tenn.

It saved many fowls for me.—L. G. Day, Vienna, Va.

I would not like to do without Rust's Havens Climax Powder.—Jno. A. Barnes, Sullivan, Ills.

Seventeen years in use. Five sizes, 25 cents, 50 cents, etc., (if mailed, 40 cents and 85 cents.) If your dealer doesn't have it send his name and receive our useful booklet by mail free.

Wm. Rust & Sons, Box 12, New Brunswick, N. J.



Valley Farm Bronze Turkeys won half the N. Y. Show firsts.

THE BUSINESS WORLD

As Viewed from the Columns of
The Feather.

SELL EGGS WHEN FRESH.

May and June are the egg months, i. e. for hatching eggs. In order to effect quick sales in the next two months you should advertise in the *American Fancier*, edited by J. H. Drevenstedt, and published every week in the year. It reaches the best class of fanciers and gives the news of the entire poultry world, including complete show reports. Its subscription price is one dollar a year. In order to bring it more prominently to the notice of readers of *THE FEATHER* they make the following special trial offer for the months of May and June: To every person sending them one dollar they will send the *American Fancier* one year and insert an advertisement of six lines in their famous classified columns three times free. Remember these columns sell thousands of dollars' worth of stock and eggs quickly and at good prices. When remitting mention *THE FEATHER* and address, Special Offer D, *American Fancier*, Johnstown, N. Y.

PREVENTIVE AND CURE.

The worst thing a poultry-raiser has to contend with is disease in his flock. It is a great thing to know the best thing to do when disease first appears and while yet curable. Wm. Rust & Sons, of New Brunswick, N. J., are manufacturing a remedy (Rust's Havens Climax Powder) which they claim is an almost infallible cure for gapes, fowl cholera, and other poultry ailments. It is largely used as a preventive of disease by the leading poultry-breeders and fanciers of the country. The firm will mail free, upon request, a booklet containing much useful information.

AN IMPORTANT SALE OF PARTRIDGE WYANDOTTES.

This is to certify that I have sold to Aug. D. Arnold, of Dillsburg, Pa., all my Partridge Wyandottes which includes my best cock and a hen that won 2nd at New York, 1st at Orange, N. J., 1st at the American Institute Show, 1901, and I hereby refer all my old customers to him.

THEO. HEIGHT, JR.,

Sec'y Partridge Wyandotte Club.

THE "SUCCESSFUL" IN FOREIGN LANDS.

The Des Moines Incubator Company, well known to our readers as manufacturers of the famed "Successful" Incubators and Brooders, has long been enjoying the select trade of experienced incubator and brooder operators, not of this country alone, but foreign countries also. Machines are shipped in carload lots to their agencies in Australia and elsewhere. Below is given a testimonial received from a foreign customer:

ICKLETON POULTRY FARM,

Thomas Mansell, Prop. and Mgr.

P. O. Hoxton Park, N. S. W.,

Australia, Dec. 10, 1901.

DES MOINES INCUBATOR CO.,

Buffalo, N. Y., U. S. A.

Gentlemen: I have used your "Successful" No. 2, and for a thoroughly reliable machine I can not speak too highly of it. First hatch, 208 eggs, 197 chickens; second hatch, 200 duck eggs, 185 ducklings. Your regulator works like clock-work; no trouble whatever. The last week the temperature of the

room has been ninety-eight to one hundred degrees. Notwithstanding this excessive heat the regulator has worked like a charm. Your brooders are also giving great satisfaction. Chicks are very strong. Yours respectfully,

THOMAS MANSELL.

POULTRY AND STOCK REMEDIES.

Attention is called to the announcement in our advertising columns of the products of the Geo. H. Lee Co., Omaha, Neb.

Lee's Lice Killer, Lee's Egg Maker, Lee's Hog Remedy, Lee's Sheep and Cattle Dip, Lee's Mixed Salt and other preparations to keep stock and poultry of all kinds healthy and profitable, are articles that experience has proven to be best for the use of poultry raisers and stockmen. The Geo. H. Lee Co. stand behind their preparations with a positive guarantee, and solicit an opportunity to send our readers their complete line general.

STANDARD-BRED POULTRY.

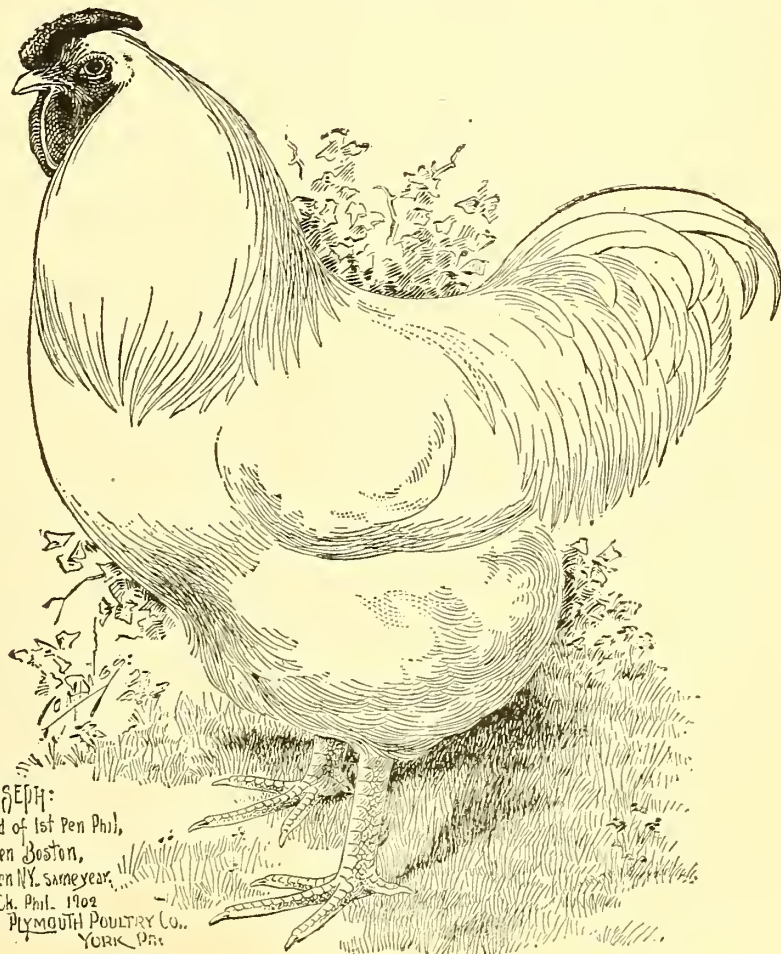
"Last week while traveling through Southern Pennsylvania, on a tour of inspection of the prominent poultry plants of the country, to get a more thorough knowledge of the business, and also to select the very best stock, it was my good fortune to visit the extensive practical poultry farm owned and operated by the Plymouth Poultry Farm Co., at York. Here I found what seemed to me to be just the kind of plant and exactly the stock I was in quest of.

"The farm is located a convenient distance from the beautiful city of York

and covers sixty acres. As I approached the plant I first saw the cosy houses for the manager and for the farmer and manager's assistants, a very commodious barn for the season's crops, principally produce for the stock raised. Building No. 1 is an up-to-date brooder-house about 225 feet long and additions containing boiler-house, heating apparatus, cooking apparatus, and chopping and other machinery; this building contains a number of sectional hot-water brooders; adjoining is a nursery brooder-house for the young chicks until they are two weeks old, when they are transferred to the large house. The incubator-house is 50 feet long by 25 feet wide, is about half underground with cement floor. There are eight large houses for laying stock ranging from 50 feet to 200 feet in length, making over 100 separate pens with ample yards attached to each pen.

"The varieties raised on this farm are White, Buff, and Barred Plymouth Rocks; and White and Buff Wyandottes only, as they consider them the best general-utility fowls in existence. When I beheld 'Joseph' the justly celebrated White Wyandotte cock, I was simply lost in admiration. This bird I recalled at once, for I had seen him at the great Philadelphia Show where he had won first prize last season. The other White Wyandottes on this farm were high-scoring birds, every one of them being equal to any I had seen at other plants and far and above many I

Valley Farm White Rocks won at Pan and N. Y.



JOSEPH:
Head of 1st Pen Phila.,
1st Pen Boston,
1st Pen N.Y. same year,
1st Ch. Phil. 1902
PLYMOUTH POULTRY CO.,
YORK, PA.

JOSEPH: Head of 1st pen Phila., 1st pen Boston, 1st pen N. Y., same year. 1st cock Phila., 1902, Plymouth Poultry Co., York, Pa.

had been shown. Next we visited the Buff Wyandottes and here they have a very choice selection and mated in the most scientific manner; a lively lot of perfectly shaped and colored birds. Passing to another of the large and well-kept buildings we came upon the Barred Rocks; well, barred expresses well the appearance, and upon close and critical inspection I found them true to the core; size, shape, carriage, and plumage were as near right as proper breeding can bring them.

"Moving across a gentle slope we entered the house containing the Buff Rock pens; these are the birds that are taking a great hold on the fancier and here were found a high standard lot of birds. I could not in any instance criticise the mating; altogether, a healthier lot of birds could not be found. We now came upon the White Rocks, and standing on a slight hill overlooking the houses containing these birds there appeared banks of snow here and there. Upon closer inspection I found the piles to be very much animated, and with Old Sol's rays upon their feathers it presented a sight worth going miles to witness. White? Well, there could be nothing whiter. This appeared to me to be the largest collection of the best birds in the country; before me I saw blue ribbon winners in the largest eastern shows, every pen headed by a winner and the hens of the highest scoring quality.

"I looked into the business department and found it a busy place—the stenographer busy answering the correspondence, and the clerks busy mailing circulars and entering orders. The facilities for shipping are most convenient. The Dover line of the Traction Company passes the farm within a short distance. The officers of this company are: Dr. J. Frank Small, president; D. E. Small, vice-president; W. F. Myers, secretary and treasurer; S. H. Jackson, manager; A. L. Freed and J. C. Bostorf, assistants."—CORRESPONDENT.

BETTER THAN EVER.

Many poultrymen who are interested in the question of good advertising have learned to look annually for the March issue of *Agricultural Advertising*, the regular poultry number of that attractive, instructive, illustrated monthly magazine. This particular number contains a great deal of the sort of information which every poultry advertiser should have. It is elaborately illustrated, and is, itself, a splendid example of the kind of advertising in which it is the recognized authority. The publishers will send a copy of this special number to any readers of *THE FEATHER* for 10 cents. Write for it today. Address, Frank B. White Company, 1710 Fisher Building, Chicago.

A CHANGE.

The Cleveland Poultry Company, Plattsburg, N. Y., who have long been advertising with us, have sold their manufacturing business to Arthur Liess, Keeseville, N. Y., and turned over the insecticide, shell and grit business to the La Porte Insecticide and Disinfectant Company, Plattsburg, N. Y. The French Lice Powder, it is claimed, is far superior to any domestic article. See their ad in this issue.

"THE COW PEA."

"The Cow Pea" is the title of the latest publication issued by the Experiment

Farm of the North Carolina State Horticultural Society, at Southern Pines, N. C. This book, neatly bound and illustrated in plain and concise manner, discusses the value and uses of this important crop, the cow pea. Every reader can get a copy free by writing to the Superintendent of Experiment Farm, Southern Pines, N. C.

Personals.

Mr. T. E. Orr, secretary of the American Poultry Association, has won new laurels with his collie, Brandane Cresceus. This dog won first in his class at the late Pittsburg Dog Show over a large entry of famous competitors.

The Hon. David A. Nichols has moved to Shelton. We presume in the future that all county matters will emanate from Nichols, Holmes, and Clark, who are sure to become the ruling spirit of that section. Poultry, politics, and plenty of fun will always have their attention. If Wells and Crangle could be within hailing distance the finest could meet and settle matters of the Costly Fishing Club and Barred Rock alley to the satisfaction of all.

Mr. Miller Purvis, of *Commercial Poultry*, is a most fluent writer on poultry topics. Fearless and bold he strikes at the root every time. He must succeed if he will only keep up with the times. It takes more than a 200-egg-per-year hen to down him, and in place of saying it can not be he calls on the boys to keep at it till they do even better. But then, Purvis is an Ohio boy and the Buckeye stock falter at nothing. Keep it up, Brother Purvis, for we call you a winner.

Valley Farm, Simsbury, Conn., introduced Faverolles. Eggs.

BOILED BEEF AND BONE.



When Romaine's Boiled Beef and Bone is fed to the youngsters they can not keep from growing. It makes them grow faster and stronger than any other food.

FEED THE CHICKS

Regularly on B. B. and B.
And all of your troubles will be at an end.

B. B. B. Is guaranteed cheaper than meat, better than scraps and safer than medicine. It will make hens lay more eggs and keep them in better health than any other food or condiment. Sample free. 50 lbs. \$1.25. 100 lbs. \$2.25.

D. W. ROMAINE, Sole Mfr.,

(Successor to Smith & Romaine)

124 Warren Street, New York City.

ARE YOUR HARES SICK?

N. Tonawanda, N. Y., March 15, 1902. One package of RABICURE saved me a \$25 doe—F. J. Babcock.

Hoopeston, Ill., July 25, 1902. With one package I cured a severe cold in twenty rabbits, and slobbers in seven—N. E. Weaver.

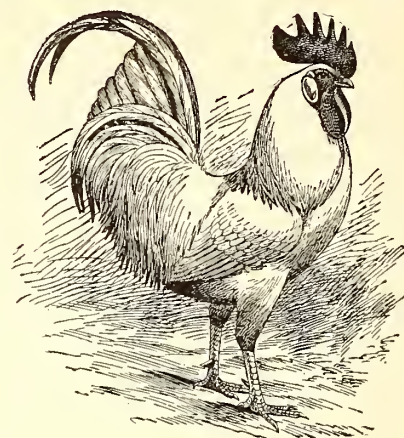
RABICURE cures Slobbers, Indigestion, Scours, Barrenness, Abortion, Snuffles, Milk Fever, Rot and Paralysis. Especially good for breeding does. **RABICURE** sent post-paid, on receipt of 50c. Rabbitry size, \$1. Booklet on diseases of the hare sent for a stamp.

VERMONT BELGIAN HARE CO.,

110 Center Street,

Lyndonville, Vt.

Prize-Winning Leghorns.



The birds at the home of the S. C. W. Leghorns, won a great record in 1900, as many of you know, but it seems as though in the year 1901 they had reached the top notch. At the Fitchburg Show, Dec. 31st to Jan. 3rd they won 5 firsts, 5 seconds, 2 thirds and 6 specials, also silver cup for best cock, hen, cockerel, pullet, and pen in any one variety of Leghorns; all this on 14 birds.

Birds from these yards have won more firsts in the hands of my customers at the leading fall shows such as Concord and Nashua, N. H., Greenfield, Brockton, Clinton, Brattleboro, etc., than all others put together.

Stock and Eggs For Sale.

Eggs from 1 setting to 1,000 eggs at reasonable prices.

Send for circular. Prices on application.

F. G. POWERS,

STERLING, MASS.

BARRED PLYMOUTH ROCKS THOMPSON'S "RINGLET" STRAIN.

I won 1st cock and pullet, 3d hen and cockerel, and four special prizes at the Electric City Show. Barred to the skin and all-the-year-around layers. Eggs, 1 setting \$2.50; two settings, \$4.

R. C. JONES, Schenectady, N. Y.

The "Puritan" Incubator

Is used on the world's Largest Poultry Farm—

The Puritan Poultry Farms, Inc.

It has paid us to discard the other makes, it will pay YOU to KNOW WHY

Our superb and immense

Catalogue { Best and most complete ever issued by a poultry plant,

Will tell you the reason and also show you how

PURITAN POULTRY FOOD

Has come to be an actual necessity. This catalogue with its beautiful photos, an original treatise on poultry culture

Absolutely Free

To you and all your friends, write to-day.

The Puritan Poultry Farms, Inc.,
Box 357 J, Stamford, Conn.

Shows and Associations.

The Ulster County Poultry, Pigeon, and Pet Stock Association announces Dec. 24-26, 1902, as the date of its next show. F. E. Miller, Rifton, N. Y., is secretary.

The annual exhibition of the Northwestern Ohio Poultry Association will be held at Tiffin, Ohio, Jan. 7-10, 1903. Ben S. Myers will judge, and V. Crabtree is secretary.

The annual exhibition of the Findlay Fanciers' Association, will be held in Findlay, Ohio, Jan. 14-17, 1903. The secretary is Will E. Heck, 1202 Albon Ave., Findlay, Ohio.

Any person interested in the American R. C. White Leghorn Club now being formed please communicate with Mrs. Jennie E. Warren, Cottonwood Falls, Kan., or Chas. H. Rose, Evans-ton, Ill.

The fourth annual exhibition of the Walla Walla (Wash.) Poultry and Pet Stock Association will be held December 16-20, 1902. Mr. F. W. Hitchcock, of Denver, will act as judge. Julius A. Levy is secretary.

The Virginia Pigeon, Poultry, and Pet Stock Association will hold its second annual show at Richmond, Dec. 11-16, 1902, with liberal classification and premiums. The secretary is F. S. Bullington, to whom all communications should be addressed.

The following will act as judges at the next annual exhibition of the Meriden, Conn., Poultry, Pigeon, and Pet Stock Association to be held Dec. 30, 1902-Jan. 2, 1903: J. H. Drevensstedt, Johnstown, N. Y.; D. P. Shove, Fall River, Mass.; W. H. Card, Bristol, Conn.

The Richland County Poultry Association will hold its third annual show at Olney, Ill., Jan. 7-10, 1903. Chas. McClave will judge. The officers are H. I. Morse, president; Mrs. E. E. Edwards, vice-president; Geo. B. Hall, assistant secretary, all of Olney; Edw. E. Dalton, secretary-treasurer, Parkersburg, Ill.

The next annual exhibition of the Cayuga County Poultry and Pet Stock Association will be held in Auburn, N. Y., Jan. 7-10, 1903. The officers are as follows: F. D. Wright, president; W. I. Bennett, first vice-president; Chas. Dalton, second vice-president; L. R. Carl, treasurer; C. J. Filkin, secretary. Executive Committee: W. E. Tailby, F. J. Burns, W. I. Bennett, J. H. Scott, A. E. Coe.

The fifth annual meeting of the American Buff Plymouth Rock Club was held in Mechanics' Building, at 2 p. m., Jan. 16, 1902, in connection with the Boston Poultry Association Show, with Dr. O. P. Bennett, the president, in the chair. The following officers were elected for the present year: President, Dr. O. P. Bennett; vice-president, A. C. Hawkins; secretary and treasurer, W. C. Denny. Executive Committee: M. F. Delano, B. E. Johnson, H. W. Higgins.

The National Wyandotte Club have just issued their annual catalogue, which is very attractive and instructive and should be read by every Wyandotte breeder. It is profusely illustrated with first-class cuts of all varieties of Wyandottes, and the many articles touching upon the several varieties by successful and prominent breeders make it a work that will be preserved. It will be

sent to all interested in Wyandottes upon receipt of three cents for postage by the secretary, C. S. Mattison, So. Shaftsbury, Vt.

The Queen City Poultry Association has been organized at Sioux Falls, S. D., with the following officers: A. J. Keith, president, Sioux Falls, S. D.; H. C. Middlebrook, vice-president, Rock Rapids, Ia.; John King, treasurer; F. K. Pruner, secretary; B. W. Harding, superintendent, all of Sioux Falls, S. D. Their annual show will be held Jan. 27-31, 1903. One thousand dollars in cash prizes, ten silver loving cups, and \$300 in specials will be offered. This association is backed by the Business Men's League of Sioux Falls, S. D.

To Silver Wyandotte Breeders:

The attention of all Silver Wyandotte breeders is called to the good work being done by the Silver Wyandotte Club of America. The object of this club is to place this very best and oldest of all Wyandottes in the front rank. To do this will require the co-operation of every Silver breeder in America. This we earnestly desire and expect. The future welfare of our favorites depends upon the activity of ourselves in championing their worth. Silver breeders have long mourned the lack of an organized fraternity to further their interests, and many of the oldest and best fanciers have joined our ranks.

At the last annual meeting of the club, held at Philadelphia, Jan. 1, 1902, the following officers were elected: John T. Cotheran, New Rochelle, N. Y., president; A. C. Le Duc, Chenoa, Ill., vice-president; Waldo H. Dunn, Monroe, Ohio, secretary; Henry Steinmesch, St. Louis, Mo., treasurer. Executive Committee: E. S. Tarbox, Yorkville, Ill.; F. B. White, Oak Park, Ill.; C. C. Townsend, West Chester, Pa., together with president and secretary. Send \$2 for membership fee and first year's dues at once. All questions in regard to the club and its work cheerfully answered.—WALDO H. DUNN, Secretary, Monroe, Ohio.

The American White Wyandotte Club.

A new club was organized during the Philadelphia Show by a number of White Wyandotte breeders, and named the American White Wyandotte Club. This club was formed after mature reflection, and is not intended to be antagonistic to any existing club devoted to the interests of the breed. These clubs are all more or less local in their character, and it was thought that there was room for a club composed of the leading breeders from all over the country, and holding annual meetings wherever the majority vote of the club members decide.

The annual dues of \$5.00 will make the club a strong one financially, and it is purposed to distribute a large percentage of these dues as cash specials at whatever show the club votes to hold its annual meeting. One of the by-laws forbids the distribution of a subscription list, and the annual dues are to cover all expenses, and still leave a balance for generous cash specials.

It is the earnest desire of every member of the new club that all breeders of this variety will join with us in our effort to make the showing of White Wyandottes better in quality, and

Valley Farm wins now, not years ago. Stock, Eggs.

stronger numerically at all future shows. The Whites contained the largest classes at most of the leading shows the past winter, and it is the intention of the American to do all in its power to make them the leading classes at all the shows in the country.

The officers elected at Philadelphia were: Louis Blank, Philadelphia, Pa., president; W. E. Mack, W. Woodstock, Vt., vice-president; Maurice F. Delano, Millville, N. J., secretary and treasurer; Louis Blank, M. F. Delano, Lewis C. Benedict, A. L. Sparks, C. A. Briggs, and D. Lincoln Orr, executive committee.

Our membership now numbers thirty-one, and in a few weeks will include most of the progressive breeders of Whites in the country. All breeders are cordially invited to send to the secretary for application blanks, and to help us place this grand variety far in the lead.—MAURICE F. DELANO, Secretary, Millville, N. J.

POULTRY PRINTING



In deciding to buy anything, the most rapid and available method is usually used. Likewise, when valuable eggs are shipped, you save time when a label with a cut of your breed and a large nest of eggs to attract attention and insure careful handling, is used. Eggs hatch better if carefully handled. Price of labels, post-paid, 5/8x3/4 inches, 100, 60c.; 250, \$1.10. Samples are free. Also letter-heads, envelopes, etc. Look for the star in back numbers for some prices. "Ringlet" B. P. Rock eggs, \$1.00 per 13.

JOHN ENGEL, JR.,

Printer and Breeder.

90 Kohn St., Newark, New Jersey.

The American Standard of Perfection.
The Poultryman's Text Book.
LATEST REVISED EDITION.
PRICE \$1.00.



To Subscribers.

Every poultryman must have a copy of the American Standard of Perfection, to breed his fowls successfully. It is the Official Book of the American Poultry Association for Raising Poultry to a Standard of Perfection, with Instructions to Judges, General Disqualifications, Cutting for Defects, Detailed Description of all Breeds of Poultry, Turkeys, Ducks, and Geese, and a Glossary of Technical Terms. We will give this book and a year's subscription to THE FEATHER, for only \$1 the price of the book alone. This is a most liberal offer.

GEO. E. HOWARD & CO.,

305 10th St. N. W.,

Washington, D. C.

Classified Advertisements

Fully prepaid advertisements of twenty-five words or less inserted under this heading at the following rates:

One time.....	\$.50
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One year.....	3.50

READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 2 cents each for one insertion, or 1½ cent each for each insertion when run three times or more. Initials and figures count as single words.

PLYMOUTH ROCKS

EXHIBITION BARRED ROCKS. Stock direct from Thompson, Miles, and Gardner. Eggs from my prize-winners, \$2 per 13. E. B. LEEK, Amagansett, L. I., N. Y.

AT ELMIRA, Dec'r 1899, and Nov. 1900, on Barred Rocks we won 8 firsts, 7 seconds, and 5 thirds. Choice breeding stock at \$2 up. Eggs, \$2 per setting. **KRAFT BROS.,** Box 536, Hornellsville, N. Y.

BARRED PLYMOUTH ROCKS—Bradley and Welles strains. Clear, even barring; large, vigorous, and tremendous layers. First winners at Orange and Washington past six years. Eggs rest of season one-fifth value, \$1 per 13; 95 per cent fertility guaranteed. Pedigreed Collie pups from imported stock, \$5 each. **WM. H. CYPHERS,** Box 105, Washington, N. J.

BARRED ROCK EGGS from the prize-winning pens of Lefell and Gibson for sale; also Single Comb Brown Leghorn eggs. Write me for prices. **E. P. FRALEY,** Hendershot, O.

BARRED PLYMOUTH ROCKS, "Hawkins" and Thompson's strains. Fine exhibition cockerels and pullets at \$2 each; trios, \$5. Eggs, \$1.50 per 15. 20 years a breeder of Barred Rocks. Satisfaction guaranteed.
C. S. JENSEN, Dover, N. J.

BARRED ROCKS, "Hawkins" "Royal Blue" strain direct. Eggs, \$1 per 15; \$5 per 100. Bronze Turkeys, 45-lb. tom, 9 eggs, \$2. Catalogue. **ELMER GIMLIN,** Rosemond, Ill.

B. P. ROCK EGGS, \$1 per 15, or \$2.75 per 45, Latham breeding. **M. B. Turkey eggs,** \$2 per 12. **JOHN B. TRICE,** Summitville, Madison Co., Ind.

WELLS' BARRED PLYMOUTH ROCKS.—Five grand yards containing many prize-winners. Male line direct from Bradley Bros. Eggs, \$1 per 13, \$2 per 30. **W. J. WELLS,** St. Peters, Chester Co., Pa.

FARM-RAISED BARRED P. ROCKS EXCLUSIVELY for 28 years. The kind you want; very handsomely barred; yellow legs; large size; a great laying strain. Eggs for sale, \$2 per 15; after Feb. 1st, incubator eggs \$4 per 100. **EDWIN JOHNSON,** Dolington, Buck Co., Pa.

WHITE ROCKS.—Winners wherever shown. Write your wants to **ED. L. DOUGLASS,** 453 W. Center St., Akron, O. Eggs and stock in season and guaranteed. Mention this paper.

WHITE PLYMOUTH ROCKS, \$3 to \$5 per trio; \$5 to \$10 per pen. Sold on approval. Eggs from choice pens, \$2 per 15; \$3 per 30. **C. M. BARTLETT,** Agnewville, Va.

FINE BUFF PLYMOUTH ROCKS.—Hawkins' strain. The kind that win the prizes and lay the eggs. A fine booklet free. **J. G. STAUFFER,** Palmyra, Pa.

BUY CHICKS, NOT EGGS. Utility strain White Plymouth Rocks, \$3 per doz.; \$20 per 100. **EDWIN J. MICHENER,** Carversville, Bucks Co., Pa.

BARRED ROCKS, Gardner's, Hawkins', and Thompson's, strains. White Rocks, Hawkins' strain. Eggs, \$1 per 15. Circulars free. **LYON & SONS,** Box 3, Spring Hill, Pa.

BUFF PLYMOUTH ROCKS (Nugget strain). Eggs from large, vigorous, heavy layers, fine-colored stock, \$1 per 15. Guarantee 10 chicks. **ARTHUR TAYLOR,** Washington, N. J.

BUFF PLYMOUTH ROCKS.—Winners of 1st cockerel, 1st pullet, at the Harrisburg Show. Eggs, \$1 per 13. **R. M. TRATE,** Pottstown, Pa.

WHITE PLYMOUTH ROCKS (Hawkins' strain). Bred for utility and beauty. Eggs, \$1 per 13; \$1.80 per 26. Poultry Supplies cheap. Circular. **EARL COOK,** Pratt's Hollow, N. Y.

INCUBATOR EGGS, \$4 per 100; from fine strain of noted Barred Plymouth Rock layers, mated to Royal Blue Barred cockerels (Hawkins' strain). Address, **MRS. A. K. NORTON,** Old Homestead Poultry Yards, Selden, L. I.

FINE LAYING STRAINS—Barred Plymouth Rocks, White Wyandottes, Light Brahmas, Black Minorcas. Utility and standard. Farm range. Eggs for setting. **WOODSTOCK POULTRY FARM,** Sudbury, Mass.

BARRED ROCK EGGS that will hatch. From select matings only. \$1.50 per 13. **J. A. SCHEIFLEY,** Parkerford, Penn'a.

HOME OF BUFF AND WHITE ROCKS. Eggs, 20—10 each—\$2. Games—5 strains, 5 birds, \$5. **EXPERIMENTAL AND EXCHANGE FARM,** McColl, South Carolina.

BARRED PLYMOUTH ROCKS Exclusively. Best strains, choice selected stock. Eggs, \$1 per 13. **JACOB THOMAS,** P. O. Box 325, Williamsport, Pa.

WHITE PLYMOUTH ROCKS ONLY; best strains, splendid layers. Eggs, \$1.50 per 15. Guaranteed. Also, Homing Pigeons from 500-mile stock. **PAUL SPRINGER,** Bridgeton, N. J.

BARRED ROCKS EXCLUSIVELY (Ringlet strain). Bred for utility and beauty. Eggs from choice matings, \$1.50 per 15. Satisfaction guaranteed. **N. A. GALLANT,** Plattsburgh, N. Y.

BUFF ROCKS from prize-winners. Farm raised, pure Burdick strain, great layers. Eggs, \$1 per setting. Cockerels for sale. **L. W. CLELLAND,** Box 7, Barrackville, W. Va.

TRASK'S PLYMOUTH ROCK FARM.—Barred, White, and Buff Plymouth Rocks. Winners at the late Boston Show. Eggs, \$2; 3 settings, \$5. Some fine breeders. **E. F. TRASK,** Beverly, Mass.

MRS. K. E. SPEAR, Box A, Conewango, N. Y., will sell a limited number of eggs for hatching from a \$40 pen Fishel's White Plymouth Rocks, score, 96, 95½, 95, 94½, \$1.50 per 15. New Dandy bone cutter cheap.

BARRED PLYMOUTH ROCKS Exclusively. Standard shape, size, and color. A limited number for sale. Will book orders for eggs at \$2 per 15. **A. H. BUTTERFIELD,** Schuylerville, N. Y.

BUFF ROCKS ONLY, Vernon K. Dayhoff's strain. Good in shape, size, and color, but not solid. Eggs, \$1.25 per 13. **B. H. KNEPPER,** Clearspring, Md.

WHITE ROCKS—Fishel strain. 3 grand pens of pure white prize-winners. Grand shape, legs, and eyes. Stock for sale. Eggs, \$2 setting. **FAIRLAWN POULTRY YARDS,** L. S. & H. B. Wisner, Props., Middletown, N. Y.

BUFF ROCKS, Nugget strain, Eggs, \$1 per 13. Do not exhibit, but my birds are winning for others. **A. J. HANCE,** Boothwyn, Pa.

MEADOW FARM, Moreland, N. Y., won on White Rocks and White Leghorns at Elmira, December, 1901, twelve ribbons with two entries: Rochester, January, 1902, six entries White Rocks, won four regular, four special prizes, 123 birds competing. Three entries White Leghorns, first and second pullets, three specials, 40 birds competing. Eggs that hatch, \$1.50 per 15.

WHITE PLYMOUTH ROCKS exclusively. Pen headed by fine, big, ten-dollar cockerel direct from Fishel. Eggs, \$1.50 per 15.
OAK HILL FARM, Winchester, Va.

BARRED PLYMOUTH ROCKS exclusively. Eggs from fine farm raised stock (leading strains) \$1.50 per setting; also eggs from Pekin Ducks, choice stock, \$1 per 11. **A. B. TERRY,** Amagansett, L. I., N. Y.

BARRED AND WHITE ROCK EGGS for hatching, \$2 per 15. **W. R. cockerels,** \$1 to \$5. **HAZLERUN POULTRY YARDS,** Winthrop Heights, D. C.

H. I. MACKEY, Gilboa, New York. Eggs for hatching. Rocks, snow-white, yellow legs, fine layers. One pen, one Fishel's best cockerels. Other pens as good. Write.

ROOKER'S BUFF ROCKS. Winners at Pan-American and other leading shows. Choice breeders for sale. Eggs from winners, \$2; three settings, \$5. Booklet free. **J. E. ROOKER,** Station 2, Washington, N. J.

LARGE WHITE PLYMOUTH ROCKS, Hawkins-Kulp strain. Heavy layers; farm raised. Ideal trap-nests used. Eggs, \$1 per 15; \$5 per 100. Stock reasonable. **FRANK HARVEY,** Box 9, Lansdowne, Md.

WHITE PLYMOUTH ROCKS EXCLUSIVELY. Nine years' care in breeding for business qualities and fancy points. Eggs, \$1 per 15. **L. S. MASON,** Boothwyn, Pa.

J. R. PIPER, JR., 10 Market St., Morristown, N. J. Prize winning Light Brahmas at leading shows. Fine Barred Rocks. Egg orders booked now. Buyers write.

200 FINE BUFF ROCK cockerels and pullets at a bargain. Farm raised; spring running water. Write now. **SPRING RUN POULTRY FARM,** Washington, N. J.

WHITE ROCKS. Winners at Boston for three years. Silver cup at South Framingham. Eggs, \$2 per 13. Send for circular. **STAFFORD BROS.,** Fall River, Mass.

BARRED ROCKS, WHITE WYANDOTTES. Stylish, vigorous, and thoroughly up-to-date. All standard weight and over. Settings, \$2. **JOHN C. HAIG,** Owego, N. Y.

BARRED PLYMOUTH ROCKS EXCLUSIVELY. Choice, vigorous stock, highest quality. Eggs for hatching, \$1 for 15; \$1.75 for 30; \$4 for 100. **B. H. ACKLEY,** Spring Hill, Pa.

W. J. WIBERLEY, Peekskill, N. Y., breeds high-class Buff P. Rocks, W. Wyandottes, R. C. Brown Leghorns. Eggs, \$2 per 15. Pekin Onck eggs, \$1 per 12. Fowls have grass range.

WHITE ROCKS (Fishel). Eggs from two grand yards, \$2 per setting; two settings, \$3. Healthy, vigorous stock. **TWIN OAKS POULTRY YARDS,** Riverdale, Md.

EGGS FROM SELECTED FIRST-PRIZE winners—White and Barred Rock, Black Minorca, White Wyandotte, and Black Langshans, 1 setting, \$3; 2 settings, \$5. Liberal discount for quantity. Choice cockerels, \$3 each. Cash with orders. **KENTON POULTRY FARM,** E. P. Magruder, Prop'r., Glenndale, Md.

BARRED PLYMOUTH ROCKS EXCLUSIVELY, Bradley Strain. Eggs from yard No. 1, \$2 per 15; No. 2, \$1.50; per 100, \$5. **A. J. ARCHER,** Bashan, O.

BUFF ROCKS (Burdick's Nuggets direct). White Rocks (Fishers Island Farm). White Wyandottes (Mack). Eggs, \$1.50 per setting, or any three settings, \$3. Stock farm bred. **H. E. CURTIS,** Rutland, Vt.

BARRED ROCKS AND LIGHT BRAHMAS, extra fine. Eggs, \$1.50 per 15. Worth twice the price, but can not hatch any on account of moving. **C. SPADAVECCHIA,** 10 McAuley Place, Jamaica, N. Y.

CHICKS FOR SALE, \$3 per dozen. Bred from third-prize Barred Rock cockerel at Philadelphia. Pure Bradley Bros.' strain. **WM. WISLER,** Pine Iron Works, Pa.

PLYMOUTH ROCKS of the following varieties: Barred, White, Buff, and Partridge. Choice stock for sale reasonable. Eggs in season, \$1 per 13. **H. W. MORGAN,** Ashtabula, O.

BINDER'S Barred P. Rocks are the true blue, even in color, not brassy. The yearling cock at head of single-mating yard is large, with lots of snap, weighs 11½ lbs., bred in line from single or standard mating, his sire scored 91½ points. Our cockerel and pullet matings are fine, and should produce some winners. A few good breeders for sale. Eggs, \$1.50 and \$2 per 15. Send for mating-list to **G. P. BINDER,** West Newton, Pa.

EGGS for sale from prize-winning stock direct from **E. B. Thompson,** and **Bradley Bros.** Large brown eggs, \$1 per 15. **C. F. BOURGEOIS,** Cromwell, Conn.

LEGHORNS

PRIZE-WINNING S. C. Brown Leghorns. 10 prizes on 5 entries at Rochester, 1901. Three 1sts, four 5ths, and five specials. Fine stock score into the 90's for sale cheap. Eggs, \$1 per setting. **FRANK G. RICE,** 9 West Avenue, Dansville, N. Y.

KEYSTONE POULTRY FARM.—Rose and Single Comb White Leghorns. Won 1st on cockerel at Reading; 1st and 2d on cockerels at Sanatoga. My customers are winning at shows wherever shown. Eggs and stock for sale at all times. Extra fine cockerels, pullets, and hens at \$1 each. Eggs, \$1 per 15; \$5 per 100. **A. C. NESTER,** Pottstown, Pa.

S. C. BUFF AND WHITE LEGHORNS. A few choice cockerels for sale, \$1 to \$5 each. Pullets 75c. to \$1 each. Also some fine yearling hens and cock; all pure bred; Arnold and Wilcox strains; farm raised. Eggs in season, \$1 for 13; \$2 for 30; \$5 for 100. Write me what you want. **PINE GROVE POULTRY YARDS,** Jay, Essex Co., N. Y.

HASSLER'S BUFF LEGHORNS AND BUFF ROCKS.—Cornell, Arnold, Lamson, Brown-Nugget strains. Eggs \$1.50 and \$2 per 15. White Leghorns' best strains, \$1 per 15. E. S. HASSLER, Wernersville, Pa.

LEGHORN POULTRY YARDS have for sale a limited number of Single-Comb Brown and White Leghorns, pullets and roosters. Best layers known. Price \$1 to \$1.50 each. Eggs in season at \$1 for 16 or \$5 for 100. Satisfaction guaranteed. Address A. T. MATTHEWS, Box 36, Parkersley, Va.

SINGLE-COMB WHITE, BROWN BUFF Leghorns; White Plymouth Rocks. Eggs in season, \$1.50 per 15; \$4 per 50. A. G. SNYDER, Buanton, Morris Co., N. J., Box 394.

SINGLE COMB LEGHORNS in Buff, White, Brown, and Black. Choice stock for sale reasonable. Eggs in season, \$1 per 15. H. W. MORGAN, Ashtabula, O.

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S. C. BROWN LEGHORNS. (Wittman-Bright). The brown that's brown. Home show, Jan. 9-10, 1st cockerel; 1st, 2d, 3d, 4th pullets (by Brown). Eggs from selected pens, \$1 per 15. G. F. LIPPOLD, Druggist, Cumberland, Md.

SINGLE Comb Brown, White, and Buff Leg horns. Eggs, 75c. per 15. Cornish Indian Games' eggs, \$1 per 15. Orders booked now. BRISH BROS., Frederick, Md.

WHITE LEGHORN CRACKERJACKS are in our two breeding-pens, headed by first cock Hagerstown, and first cockerel Philadelphia. Circular for stamp. EXMOOR FARMS, Lebanon, Pa.

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S. C. BUFF LEGHORNS, Lamson strain. Two pens, cockerel and pullet matings. They are buff to the skin, and prize-winners. Stock for sale. Eggs, \$1.50 per setting. FAIRLAWN POULTRY YARDS, L. S. & H. B. Wisner, Props., Middletown, N. Y.

ROSE COMB BROWN LEGHORNS Exclusively. Challenge the world to beat for show or laying qualities. Eggs, \$1 per 15. Satisfaction guaranteed. JOHN HOWE, Worcester, N. Y.

CHOICE EGGS FOR HATCHING from pure-bred Single Comb White Leghorns, Buff Plymouth Rocks, and Bronze Turkeys. If interested write. T. D. SCHOFIELD, Woodstock, N. H.

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SINGLE COMB WHITE LEGHORNS. Eggs, \$1 per 15; \$1.75 per 30; \$5 per 100. Stock for sale. Write for prices. CLYDE FRIESE, Hagerstown, Md.

SINGLE COMB WHITE LEGHORNS Exclusively. Best layers, pure bred, prime condition, good range. Eggs from selected stock, 15 for \$1. I. BISHOP, Columbiana, Ohio.

ROSE COMB BROWN LEGHORNS. Eggs from Rose Comb Brown Leghorns, fifty cents a dozen; four dollars a hundred. Satisfaction guaranteed. W. S. CARR, McAfee, N. J.

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ROSE COMB WHITE LEGHORNS exclusively. Eggs for hatching, 15 for \$1; 30 for \$1.50; 45 for \$2. F. C. LANGWORTHY, Leonardsville, N. Y.

ROSE COMB BROWN LEGHORNS, from Kulp's 242-egg strain direct. Also Single Comb Browns and Barred Rocks; setting eggs only. No more stock till Fall. FRED. B. RODMAN, 142 Shepard St., Lynn, Mass.

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SINGLE COMB WHITE LEGHORNS. Prize-winners at Sanatoga, Reading, and Harrisburg. Eggs, \$1.50 per 15; \$3 per 30; \$4 per 50. H. F. SCHEFFY, JR., Sanatoga, Pa.

EGGS from my best matings of Buff Leghorns and Buff P. Rocks at \$2 per setting. Winner at Hagerstown, Philadelphia, and Pan-American this last season. Stock for sale. HOWARD BROWN, Box 524, Coatesville, Pa.

S. C. BROWN LEGHORNS.—Eggs from my best pen, \$2 per 15. Won at the following shows: Cambridge; Troy, N. Y.; Orange, N. J.; West Brookfield, Mass.; Schenectady, N. Y., 1901 and 1902, on 20 entries, nine 1sts, three 2ds, four 3ds, two 4ths, six specials. ELMER HOLBROOK, Greenwich, N. Y.

SINGLE COMB BROWN LEGHORNS, Kulp-Dorsey strain. Heavy layers; farm raised. Ideal trap-nests used. Eggs, \$1 per 15; \$4 per 100. Stock very reasonable. FRANK HARVEY, Box 9, Lansdowne, Md.

EGGS, \$1 per 15. S. C. White and Brown Leghorns, White Wyandottes. We won at last Orange Show, 1st hen, 3d and 4th cocks, White Leghorns; 1st hen, Brown. Satisfaction guaranteed. EATON BROS., Lyons Farms, N. J.

S. C. BUFF, WHITE, BROWN LEGHORNS.—Arnold, Wyckoff, and Howell strains, in their purity. Eggs from high-scoring exhibition stock, \$1 a setting; \$1.50 for 30. ELM GROVE YARDS, Au Sable Forks, N. Y.

ROSE COMB BROWN LEGHORNS FOR sale. A breeding-yard of 12 hens and cock, price \$20. This is first-class stock. The kind that produces our New York and Boston winners each year. Eggs, \$2 per setting. W. G. FRONHEISER, Prop. Address J. B. HOFFMAN, Mgr., Sanatoga, Pa.

TWENTIETH CENTURY POULTRY FARM. Single Comb White or Brown Leghorns, also White Wyandottes. Eggs, \$1.50 per setting. Best strains, highest fertility, utility. F. KOPP, Ridgewood, N. J.

SILVER DUCKWING LEGHORNS, Mottled Javas, Black Javas, Rhode Island Red Bantams, Rose Comb, of my own origin. Eggs, \$3 per 15. Bantams' eggs, \$5 per 12. JONES, "The Java Man," Suffield, Conn.

EGGS 50 cents per setting, from S. C. Brown Leghorns. They are large, thoroughbred, well ranged, and are laying strain. F. ROONEY, Corning, N. Y.

SINGLE COMB WHITE LEGHORNS. Eggs from selected pens headed by first Chicago and first Trenton Poultry Show winners, \$2 for 13; \$5 for 39. ALFRED P. SMALLEY, Clayton, N. J.

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WHERE DO YOU BUY YOUR Stay-White Wyandotte eggs for hatching? Why, at Shoemaker's, of course! He guarantees satisfaction, and ships you eggs that test 75 to 90 per cent fertile. He answers your correspondence promptly. He is breeding from extra fine pens this season. Eggs, \$2 per 15; eggs for incubators, \$5 per 100. W. E. SHOEMAKER, Laceyville, Pa.

WHITE WYANDOTTES. Winners at New York, Orange, and Washington past six years. Eggs one-fifth value rest of season from absolutely stay-white, vigorous stock, \$1 per 13. 95 per cent fertility guaranteed. Pedigreed Collie pups from imported stock, \$5 each. WM. H. CYPHERS, Box 105, Washington, N. J.

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WHITE WYANDOTTES EXCLUSIVELY. Hunter and Duston and Keller strains. Large birds, pure white, heavy layers. Eggs, \$1 per 15; \$5 per 100. Also some of A. C. Hawkins' stock direct. Eggs, \$2 per 15; 3 settings, \$5. Fine cockerels, \$3 to \$5. Satisfaction guaranteed. WM. BURCHALL, JR., St. Denis, Md.

PARTRIDGE WYANDOTTE EGGS FROM pure Cornell-Brackenbury stock. Thirty eggs for five dollars, or fifteen for three dollars. WM. M. CONNOR, Weston, N. J.

WHITE WYANDOTTES EXCLUSIVELY. (Hawkins' strain.) Eggs for hatching, \$1.00 per 13, from prolific, snow-white stock. Orders booked. LOUIS G. HELLER, Bridgeton, N. J.

WHITE WYANDOTTES.—191-egg strain. Eggs for hatching, \$2 per 50; \$4 per 100. Satisfaction guaranteed. E. O. SCHAAF, R. D. 3, Sewell, N. J.

MRS. DENTON COLE, Winwood, Pa., offers eggs from White and Silver Wyandottes, 15 for \$1.50, including year's subscription to THE FEATHER or Poultry Monthly; 3 years' subscription with \$5, \$4.50; or with American Fancier, \$4. Stock strictly first class. Infertile eggs replaced free.

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BUFF and PARTRIDGE WYANDOTTES. Prize matings, and will produce prize-winners. Eggs, \$2 per 15; White Wyandottes', 210-egg and Duston strains, standard and utility combined, \$1 per 15; special matings Duston strain direct, \$2 per 15. WELLSBORO POULTRY YARDS, Wellsboro, Pa.

BUFF WYANDOTTES.—Piser strain direct. Good breeding cockerels for sale. Eggs, \$1 per setting. Pens are mated now. Get your chicks out early. F. H. YARNALL, Pottstown, Pa.

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BUFF! BUFF! BUFF!!! WYANDOTTES as good as there is. Pens headed by prize-winning males. Eggs, \$2. Partridge Cochins from prize stock in young birds, and also Buff Wyandotte cockerels. JOHN BITTERS Box 6, Quaker Hill, Conn.

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LUTESINGER'S ROYAL GEM STRAINS won at Auburn, Jan. 1902, first cockerel, first pullet, Partridge Wyandottes; first cockerel, second and fourth pullets, Brown Leghorns. Quillhot, Judge. Leghorns line bred since 1890. Eggs, \$2 per 13. 6 Vandebosch Ave., Auburn, N. Y.

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YOU SHED NO TEARS when you buy White Wyandotte eggs from me, for I have White Wyandottes bred up as near to the Standard as any in West Virginia. White Wyandottes are my specialty. Eggs from choice matings, \$1.50 per 15; \$2.50 per 30. GUY C. CLELLAN, Box 1, Barrackville, W. Va.

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CHAMPION GOLDEN AND WHITE WYANDOTTES and Belgian Hares. Winners of over 225 premiums at great New York Show. Fine dead-white and fancy laced birds for sale. Eggs from fine exhibition matings, \$3 per 13. Large circular free. IRA C. KELLER, Box 60, Prospect, Ohio.

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PRIZE-WINNING WHITE WYANDOTTES. Won 1st and 2d at Washington, D. C., 1901. Eggs from this stock, \$2 for 15; \$5 for 45. JOS. A. KILLE, Clayton, N. J.

BUFF WYANDOTTES. Eggs from the strain that wins most of the New York and Boston prizes. None better. Big, clean buff birds. Great layers of large, dark eggs, \$1 per 15. GEO. T. BERRICKER, R. D. 3, Pottstown, Pa.

BUFF WYANDOTTES EXCLUSIVELY. Prize-winners at shows. Solid buff to the skin. Eggs, \$2 for 15; \$3.50 for 30. Satisfaction guaranteed. GEO. NEEDLES, Columbus Grove, Ohio.

KULP STRAIN WHITE WYANDOTTES, farm raised. Eggs for hatching, \$1.50 per 15; \$2 per 26. Barred Rocks, good strain, heavy layers, brown eggs, \$1 per 15; \$1.75 per 30. Satisfaction guaranteed. W. T. POSTER, Box 281, Woodstown, N. J.

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EXCELLENT BIRDS come from my Black Minorca and Buff Plymouth Rock eggs. Yards mated from finest strains in America. Hatch guaranteed. Cheap. REV. J. A. LONG, York, Pa.

BLACK MINORCAS (Northup). High grade, line bred, from prize-winners. Eggs guaranteed to hatch. Correspondence solicited. E. D. CROUCH, 418 Monroe St., Anacostia, D. C.

WHITE MINORCAS BRED FOR PRACTICAL and exhibition purposes. My Minorcas are unsurpassed for their large size, grand shape, superb color, fine comb, and superior laying qualities. First-class birds for sale reasonable. Eggs from selected matings of exhibition birds, \$1.50 per 13; \$2.50 per 26. All birds sold on approval. L. H. MORSE, Newark, New York.

BLACK MINORCA EGGS for hatching, \$1.50 and \$3 per 15. Write for mating-list which gives description of breeding-yards. Also breeder of Barred Plymouth Rocks and White Wyandottes. GEO. E. HAYES, Prattsburgh, Steuben Co., N. Y.

H. B. GREGORY & SON, breeders of Black Minorcas, Black Tail Japanese Bantams, Black Cochins, Bantams, and Golden Sebright Bantams. Don't overlook this point. We sell eggs for hatching from same pens as we breed from ourselves. All orders will be promptly acknowledged and filled in rotation. We strictly guarantee satisfaction to all customers. Stock and eggs in season. Mention this paper. Akron, Ohio.

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MY BLACK AND WHITE MINORCAS are grand size, shape and color, are from Northup and Jerome stock. Eggs \$2 a setting. H. M. CONLEY, Athens, N. Y.

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BLACK MINORCAS, Prize-winners. Eggs, \$1.50 per setting. 1st pen; 1st, 2d, 3d cockerels; 2d pullet at Sanatoga. J. B. KRAUSE & SONS, Sanatoga, Pa.

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SILVER SEBRIGHT BANTAMS, winners at Philadelphia, Boston, and New York, on 24 entries, 24 ribbons and 3 specials, including 2 silver cups. Stock for sale. Sell no eggs. A. C. TREICHLER, M. D., Elizabethtown, Pa.

LIGHT BRAHMA BANTAMS. My little "Midget Strain" have won more prizes at the great Madison Square Garden Shows than all others. At the Pan-American Exposition, positively the largest class ever shown in America, won 2d cock, 1st hen, 1st cockerel, 1st pullet, and all specials. Circular free. Eggs \$3 per setting. GEO. W. HILLSON, Box 404, Amenia, N. Y.

EGGS THAT HATCH from birds that win. I won more first prizes on Sebrights, Pan-American, than all my competitors combined. Choice cockerels cheap. CLYDE PROPER, Schoharie, N. Y.

BEAUTIFUL Buff Cochins Bantams at three dollars per pair. Eggs from same, two dollars per thirteen. WM. M. CONNOR, Weston, N. J.

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EXHIBITION BLACK BREASTED RED Game Bantams bred down to date for shape and color. Eggs in season, \$2 per 13. L. F. DIDDIE, Chesterton, Indiana.

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PIT GAMES. Eggs for hatching a specialty, at \$2 per setting of thirteen; three settings, \$5. A fair hatch guaranteed. Varieties: Grist Gradies, Grist Champions, Shawlnecks, Hennies, Warhorses, Gee Doms, and Blue Whistlers. Address C. M. MAHONEY, Hazlehurst, Ga.

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HEATHWOOD GAMES ONLY. No man has better stock. Eggs from pen of Mattewan and Middletown Winners, \$2 per 15. ERWIN L. SHOVE, Middletown, N. Y.

STONE'S IRISH GYPSY PIT GAMES (Jepson's strain). Fast and scientific fighters. Bred for the pit. Fine stags, \$3. One fine cock, \$5. Eggs, \$1.50 per setting. H. E. CURTIS, Rutland, Vt.

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FOR BUSINESS AND BEAUTY. GAMES.—Cornish Indians, B. B. Reds, Mexican Grays, and B. B. Red Bantams. Eggs, \$2 per 15. Rumpless, Houdans, S. C. Brown Leghorns and Barred Rocks. Eggs, \$1.50 per 15. Stock for sale. N. D. YOUNG, Rex, N. Y.

EGGS.—Exhibition B. B. Reds, also a few good birds for sale, B. B. Reds and Pits. Prices are right. F. G. BOUQUET, Owego, N. Y.

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WHITE I. GAME EGGS for hatching, \$1.50 per 15; \$2 per 26. My birds took all first, second, and third prizes at Hagerstown Show. Stock for sale. Stamp for reply. H. B. SWARNER, Plainfield, Pa.

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PRIZE-WINNING Rose and Single Comb Reds. Winners at New York, Athol, Mass., Torrington, Hartford, Danbury, Wallingford, Stamford. Eggs reduced to \$1 per 15. HARRY BARTHOLOMEW, Wallingford, Conn.

THREE HUNDRED breeding birds for sale from \$2 to \$10 each: R. I. Reds, Houdans, Lt. Brahmans, Buff P. and Golden S. Bantams. Some good bargains for early buyers. We want more room for our young stock. Also some fine Belgian Hares and Homing Pigeons for sale cheap. Send for circular and prices. DANIEL P. SHOVE, Box 666, Fall River, Mass.

ROSE COMB RHODE ISLAND REDS EXCLUSIVELY. Eggs, \$1.50 per setting; 2 settings, \$2.50. Send for circular.

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ROSE COMB RHODE ISLAND REDS. First-prize cockerel at Lewiston, Maine, 12 birds competing, heads my pen of choice brown egg layers. Eggs, \$1.50 per 13. CHESTER T. ADAMS, Kennebunkport, Maine.

COWDREY'S RHODE ISLAND REDS AND Single Comb White Leghorns have won 37 regular and 13 special prizes this year. Eggs, \$2 per setting; three settings, \$5. Good hatch guaranteed. A. B. COWDREY, Milford, N. H.

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RHODE ISLAND REDS and White Wyandottes, prize-winners at Poughkeepsie, Elmira, and Rosendale. Eggs \$2 per 15; \$3.50 per 30. A. H. GERMOND, Stanfordville, N. Y.

IF YOU WANT winter egg-producers get my Peerless Strain R. C. Rhode Island Reds. Bred from selected winter layers for five years. Vigorous stock, good color, ideal shape, and red eyes. Eggs, \$1.25 per 13; 26 for \$2. Address L. R. BROWNE, Heart Lake, Pa.

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WE HAVE WON more prizes than any fancier in the country the past year at all the leading shows. Send for circular to prove same. RED POULTRY YARDS, Shay Bros., Fall River, Mass.

RHODE ISLAND REDS. Farm raised, free range, and selected from good laying strain. Eggs, \$1 per 13; \$2 per 30; \$5 per 100. JEREMIAH MILLER, Stony Brook, Pa.

RHODE ISLAND REDS. 59 regular and special prizes this season at Boston, South Framingham, New Bedford, New York, and Philadelphia. Send for circular. STAFFORD BROS., Fall River, Mass.

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S. F. GULLIFORD, Akron, Ohio, 30 years a fancier of Polish. My specialties, White Crested Black, Bearded Silver, Bearded Golden, Bearded Buff Laced, and Bearded White. I breed these beautiful fowls to the highest standard of perfection. If interested in Polish write me.

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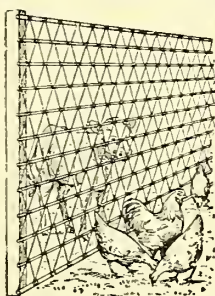
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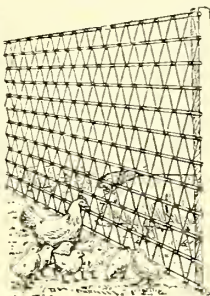
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If you do not believe it, SEND AND GET HIS CATALOGUE, and it will tell you who scored his birds. He stands in front, with highest scores by leading judges. I. K. Felch gave one of his cockerels score of 95 points, and wrote across score-card, "Every doubt given against this noble big fellow;" weight, 11 lbs. H. A. Bridge gave one of his birds score 95 points. B. N. Pierce cut one of his cockerels one-half in color. L. G. Jarvis, Guelph, Canada, scored 4 birds 94½. J. Y. Bicknell scored cockerel 94½. Charles McClave 93½ scores of birds. I have exhibited 25 times in past 8 years and won 24 times on cockerel, and tied the other one score. Sharpe Butterfield scored 3 cockerels in one show 93½. Send for my catalogue and see my winnings and scores, and who scored them, and you will say I lead the procession in winnings. Elegant breeders in any number.

NEVER LOST ON BREEDING-PEN

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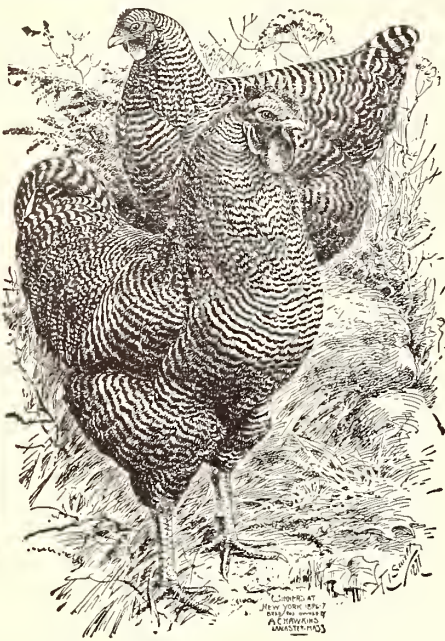
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ROYAL BLUE STRAIN PLYMOUTH ROCKS

BARRED, WHITE AND BUFF.

WYANDOTTES, SILVER WHITE
AND BUFF.

ECCS FROM PRIZE
MATINGS.
1 Sitting, \$5. 3 Sitings, \$10.
2 Sitings, \$8. 5 Sitings, \$15.
Per 100, \$20.00.

Have won more prizes at New York, Boston, Washington, and America's greatest shows than all others. My matings this season are the best I ever owned. * * * * *

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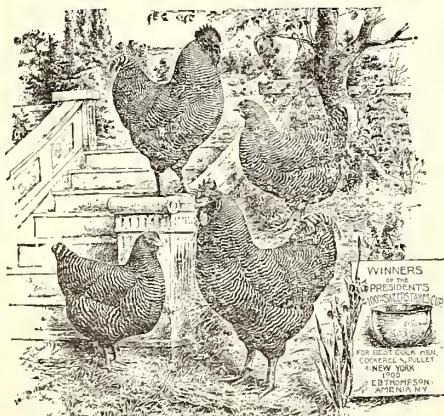
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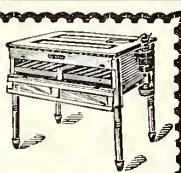
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White Plymouth Rocks.

Stock birds of large size, having fine color, and of excellent strain.

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WHITE WYANDOTTES

We ever got out. Stock for sale later.

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Time and time again the Cyphers 360-egg machine in the hands of our customers has hatched upwards of 300 chicks from 360 untested eggs. Allowing ten chicks to the hen, it would take thirty hens to hatch 300 chicks.

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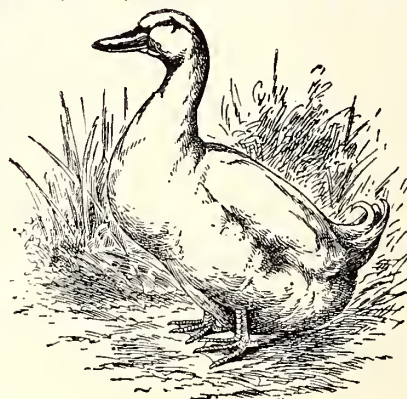
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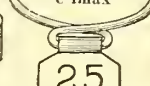
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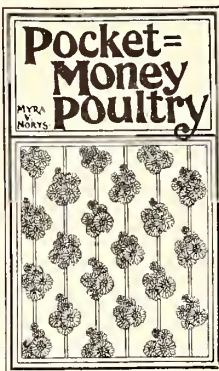
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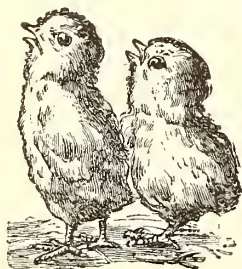
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A National Journal Devoted to Poultry, Pigeons, Birds, Etc.

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VOL. VII. No. 9.

WASHINGTON, D. C., JUNE, 1902.

FIVE CENTS.

MEDITERRANEANS.

LARGELY increased attention to the producing of winter eggs has brought under consideration the many kinds of fowls and their egg-records.

When looking up these matters we find that a prize was awarded a breeder of Albion, New York, on the egg-yield of nine Wyandottes. These nine hens produced 2064 eggs in the year, or 229 eggs per hen. This is a fine record and shows what nine hens can do when properly cared for. At one cent each this would pay a handsome profit, but this record is produced to show what a few hens can do in a city lot. None such are recorded by the census taker, and there are more than a million such within the city limits and in small villages all over the country.

The egg-yield of the Leghorn when well cared for is from 140 to 200 eggs per year. We know of two men who keep, one 400, the other 200 hens; one of these flocks gave the owner a net profit last year of \$1.58 per hen; the other a little less. Both live near Buffalo in a cold section, both keep Leghorns and sell the eggs for market, but each has a good run of trade for a high-class product, and they keep Leghorns because they produce this large number of eggs per year at less cost per dozen than other kinds. The report given shows that it cost \$1.26 per head to feed 400 Leghorns, and the eggs they laid averaged \$2.84 per hen. Some of these went for hatching and incubator use at five cents each or \$5 per 100, the balance to the markets of Buffalo and Rochester, so close at hand as to make the cost of transportation small. These 400 hens gave a net profit of \$612—one-half more than a man can make who works 300 days per year at \$1.50 per day; in addition to this the man raised his own garden stuff, and hay and corn for his horse and cow.

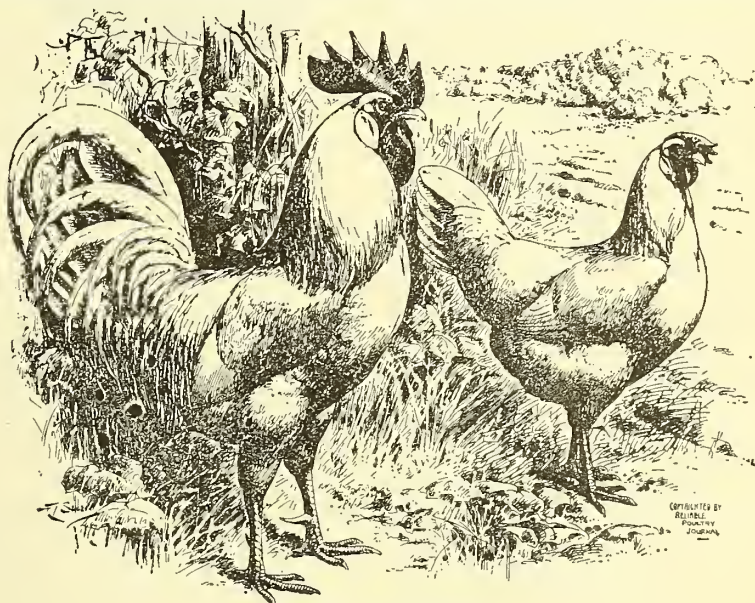
These facts show that we have as a sample a good, thrifty man who is fully able to plan and carry out that which he attempts. All who will can do as well as he, and it is true that one-half the egg-yield may be credited to the one who manages the hens. You must not think that only Leghorn hens can do this well, for equally good results have been attained with the American birds; but we are at this time writing of the

Mediterranean breeds, not as compared with any other, but of their own special qualities, and all things considered they must have the credit of being good layers and being producers of white-shell eggs. Their product is very popular in many markets of the country and they sell well in all localities.

The Leghorns head the list of breeds in this class and they number seven varieties as described in the Standard. Besides these there are some new standard varieties that are very handsome. Among these the Pyle Leghorns are the

sketch or the camera. As quality advances, so do our demands go forward in advance of the hour. Each sketch made by the expert must be better than his former effort or he goes backward. That which fills our eye to-day is pushed aside as obsolete in the near future. The admired Leghorn type of a few years ago is to-day old-fashioned. As the hand of the expert moulds into more graceful form, our demands become more exacting and the model of perfection must be improved.

We should all be a unit on Leghorn shape. All varieties should have the same shape, but this is not as yet an accomplished fact. Each variety has some one or more peculiarities that



WHITE LEGHORNS.

most beautiful. They have the same colors and markings as the Pyle Game.

LEGHORN TYPE.

Continued praise is showered upon the artist who sketched the ideal of the Leghorn type for the book on Leghorns. We are full of gratitude for his good work; if, however, these sketches are to be accepted, what shall we say of the color-plate of White Leghorns that appeared the past winter? Both can not be the ideal and herein lies the trouble that must continually confront us if we establish a rule or type by the pen

belong to it alone. Writers differ as to the better type; some favor the shape that belongs to the Browns while others cling to the Whites, and others again prefer the large, heavy Minorca body and comb. All these are individual preferences that are absolutely wrong if in variance with the Standard. No type should be considered that does not conform to the demand of the Standard.

We may argue these points to the end of time, but so long as both breeders and judges differ on these points we shall continue to have many types, and so long as the large Minorca comb that



BLACK MINORCA MALE.

follows the shape of the neck can win a prize in Leghorn classes, just so long will they be shown; but as soon as all such are left outside the awards they will disappear from the show-room. The same will be the case with all non-Leghorn qualities as fast as they are punished with no recognition in the list of awards.

BROWN LEGHORNS.

Among Leghorns the Browns are considered the high-class show fowl. The rich contrast of colors on the male and the soft brown finish of the female are most attractive. Of these the Single Combs have the lead in popularity, but the Rose Combs are well considered, and they gain each year in both quality and popularity. We have often wondered why the White Leghorn was more generally kept than the Brown for egg-production, and were told some time since by a newspaper man that the popularity of all white fowls, including ducks, had come through the persistent efforts of the amateur photographers, who find in these white birds subjects best suited to their work. On every side and in all kinds of journals do we constantly see these pictures until we know them best of all.

Be this as it may, most truly and faithfully have the White Leghorns and Pekin Ducks been pictured to the whole world till nine-tenths of those not familiar with poultry affairs think none other on earth are half so good, while the actual facts are that the Brown Leghorn is fully the equal of the White in every way as an egg-producer, broiler-producer, and market fowl; they are quite as easy to keep and rear, they will look neat and clean in the worst coal districts and about foundries and workshops. The beautiful bright colors of the male are always admired, and the combs of both male and female are attractive. If those who have at heart the best interests of the Brown Leghorns would encourage a little more size and lend a little more push to their advancement they would be quite as generally kept as the Whites.

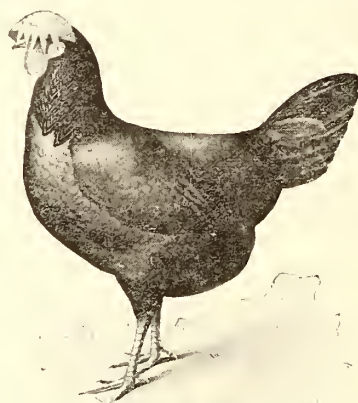
When kept for producing show specimens no fowl must be selected with greater care. Double matings are necessary for the production of the best. Exhibition males will not produce females fit to win in good company. The

rich, brilliant red demanded in the male and the black stripe of the hackle and saddle remove all possibility of their producing fine females. Males for producing fine exhibition pullets should lean to an orange top-color and but little striping in hackle and none in saddle.

The Rose Comb Brown should be the same in shape and color as the Single Comb. Many of the males of this variety have the most perfect brilliancy of top-color and striping, and beautiful combs. It is not usual to see females of as good color as is seen on the best specimens of the Single Comb variety, but this grows better year by year. If pushed for public favor the Rose Comb Brown Leghorns would become very popular, for they are a most attractive fowl and the rose comb removes much of the danger from frost in the cold climates. If the same attention were given the production of fine females among the Rose Combs as is now being paid to the production of fine females in Single Combs, and the same kind of matings made as to color, we should see the Rose Comb female as beautiful as the most exquisite Hamburg.

THE WHITE LEGHORN.

So much is continually written of this popular variety that we shall simply refer to a few facts of interest to their



BLACK MINORCA FEMALE.

welfare as an exhibition fowl. The rule of form should be more rigidly enforced and comb and head-points absolutely adhered to. Medium combs and combs that do not follow the shape of the neck are the proper type; all others are wrong. Big combs, heavy combs, combs that follow the shape of the neck, and combs with six or more points are not Leghorn combs.

The Leghorn tail is fully one-half of the bird so far as symmetry and beauty are considered. The standard demand for tail is plain enough, but its meaning is either misunderstood or disregarded by both judge and jury; the jury produces and exhibits both males and females that have tails in exact opposition to standard law, and they win. Let us go into details on this matter. "For males the tail large and full and carried well up but not upright; squirrel tails to disqualify." They must not be upright and if squirrel tailed are disqualified. Here is the point in the male. Ask yourself how many males you see, of the White especially, that have the proper type of tail. "In females, the tail long and full and carried well up, but not upright." We all admire, prefer, and will continue to favor the spread or fantail as it is called for the female, at

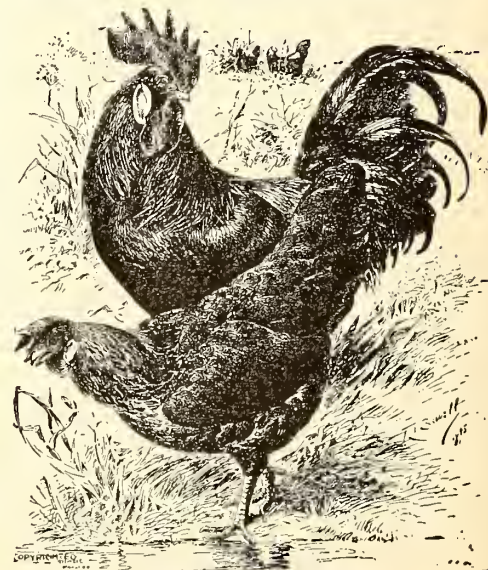
the same time is it so described in the Standard?

Rose Comb Whites are beautiful fowls and some now keep them in large flocks for egg-producing, preferring them to the Single Comb variety because of the smaller combs which are less trouble in cold districts. They are most beautiful fowls and are fully the equal of any of the varieties in all but size, and this can be readily improved by careful selection and care. The habit of using small females on account of their beauty has reduced the size which can be built up if we use the larger females for breeders.

BLACK LEGHORNS.

Black Leghorns have improved very much in the past few years. Some of very excellent quality came to the Washington Show the past winter. They were good in size, shape, and color, only lacking in flights, which had sufficient white to discard some of them. To have absolutely black color throughout, these birds must have such dark under-color as to make it almost impossible to have yellow or yellowish-black shanks. It is said that to allow dark shanks would destroy this variety because they would be crossed with the Black Minorca. If this would destroy them they may as well go, for if the time is at hand when breeder and judge can not distinguish between the Leghorn type and the Minorca type no matter what color the shanks may be, it is time to discontinue the one or the other.

Black under-color is most necessary to sustain the proper surface-color and sheen on black fowls. With this naturally go dark shanks, as with the Hamburg, the Java, Crevecoeur, and Black Wyandotte. If we hope to have the most desirable color on the Black Leghorn we should be as stringent as possible in the demand for proper comb, head-points, and Leghorn type in the Black Leghorn and show leniency as to the color of shanks. Black Leghorns are quite plentiful in Italy and Spain. But little attention is given color in those countries, and it is most reasonable to presume that the Black Leghorn and Minorca are of one and the same origin. The distinctive type of the Leghorn is American. The Minorca as we now have it in this country is a modified type of the English Minorca. They of England have their Minorcas and Leghorns much more alike in type



BROWN LEGHORNS.



SINGLE AND ROSE COMB WHITE LEGHORNS.

than we; in fact, all the Mediterranean fowls of England are much more of the Minorca type than with us. Their Leghorns are almost like some of our smaller sized Minorcas. Ludlow, the English artist of high reputation and acknowledged ability as a poultry artist, draws them quite alike in shape.

BUFF LEGHORNS.

We now have Buff Leghorns of the true American type that are of good, reasonable size and true buff color. For some time the Buff Leghorns were short in shanks and chubby of form, but both of these shortcomings have been overcome and the general appearance of the variety improved. In color they are the equal of any of the buff breeds or varieties. It is quite possible to have reasonably good size in the Buff Leghorns, as they are naturally larger than some of the others. The fanciers who have them in hand have worked hard for type, size, and color, and with these good head-points. Comb and ear-lobes are better each year and should be still more improved till better, if possible, than other varieties have, for it can be, and while the color of lobe may not be as pure white as can be had on the White variety, if of good size and shape and smooth they will beautify the bird even if a little creamy in color. Finely formed combs will also add to their beauty.

All difficulty with shank-color is gradually disappearing and giving way to the proper shade of yellow that belongs to all buff-colored fowls. Those who so desire can have fine Buff Leghorns. Those who do not have them of good quality can only blame themselves, for there are plenty of good ones to be had, not so many as in the Browns and Whites, but quite enough for all to have quality enough to start right and to produce them.

Rose Comb Buffs are lacking in quality of comb and Leghorn type. Each winter do we see them better, showing that they are being improved. So long as improvement is made just so long will they have the chance to become one of our popular breeds. They can be and should be a popular fowl far beyond what they have attained. The best of quality and printer's ink would push them forward where they belong, but above all gain the quality so as to have it to back them up to any standing to which you may push them.

SILVER DUCKWING LEGHORNS.

This variety of Leghorns has the beautiful colors of the Silver Duckwing

Game. In the male, a silvery-white top-color, balance black; the female is light gray with salmon-color on breast shading into gray. This is a very handsome color for a Leghorn, and some very fine ones come to the New York Show each winter. Not many of them are kept as yet and they may now become generally popular. Whether or no this may be, they are valuable and beautiful fowls. The breast of the female is as light a shade of salmon as has the Duckwing Game female. This variety will be improved till they have equal Leghorn qualities with any. In England they have a Pyle colored Leghorn, a fowl of exquisite beauty when true to color, as is the Pyle Game. They can be produced from the old English type of Earl Derby Game, with yellow shanks and no striping in hackle, or from a Brown Leghorn male, as described above for producing females. In either of these ways a start may be made and the best selected for breeding. This is a fancy Leghorn and a non-standard novelty that might please the fancy of some fond of experimenting. The above kind of male bred to White Leghorn females will produce the color.

ANCONAS.

We fully described and illustrated this variety in our issue of January, 1902, so we shall only say of them at this time that they are a most desirable kind of Leghorn that have much the same style of black and white markings as the Houdan. They are good in type and laying qualities.

MINORCAS.

These members of the Mediterranean family are highly valued as exhibition fowls and egg-producers, laying, as they do, the most generous-sized white egg. It gives them a standing as egg-producers that few can attain. We have them of the Single and Rose Comb Black, and Single and Rose Comb White. The Rose Combs of these two colors are both fine in form, feather, and color, as well as comb. The comb feature of these is excellent, and those that have fostered them have the right to be proud of their work. We have seen some of each that are fully the equal of the Single Comb in every way. This fact reflects credit as against the Rose Comb of some of the other varieties.

Black Minorcas have been so much written of in all the journals that it would be quite a repetition for us to go into a description of them other than to

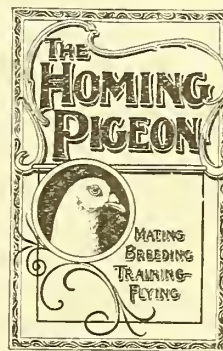
say that they are the largest of their family, very strong and hardy, and their only drawback is their large comb, which many admire and others dislike, making them one of the strongest favorites among their admirers, as well as one of the attractive classes in the show-room. The female of this variety we pictured in colors on the cover of our January issue, giving our readers full opportunity to see them at their best. The standard for this breed places their weight at five and one-half to eight pounds, the lesser weight for pullets the other for the cock-bird. It is not unusual to see specimens that are from two to three pounds over these weights.

The White Minorcas are almost as large as the largest Blacks, and fully their equal in every way. At the same

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time they are not so generally kept or shown as the Blacks. At the Pan-American and at New York some wonderful classes have come together much to their credit. Just why they have not become so generally popular as the Blacks can not be told unless it is the conservative manner of those who breed them, for there is no other reason that we can tell that would explain their being held back, for they are a most beautiful and valuable fowl.

The Rose Comb Whites are of recent origin so far as we know of them. Those that we have seen are good in all Minorca qualities, with good combs and general make-up that stamps them a Minorca. All Minorcas have the White skin that is not favored with us for table poultry, and the Blacks have the dark shank that is not preferred. Those who make use of them as table poultry are well pleased in their use; in fact, the color of shank and skin of dressed poultry is a peculiarity that has gained control of our markets without reason, at the same time it has the call and the seller finds it much easier to cater to the whims of his customers than to attempt to change them.

Rose Comb Blacks have gained a position on their merit that is well deserved, for they are a well-perfected breed or variety that reflects credit on those who have pushed them to the front. Quality of this kind can not come of itself, it must be aided and guided to a position like this by hands that know well the work necessary to complete them, for it is no idle play to bring a variety of this kind within bounds that place them in public favor as a true breeding variety. We have seen quite a lot of them that have Minorca qualities to the fullest extent, that have beautiful heads, combs, and ear-lobes. All these features tell plainly of the care bestowed in perfecting them and their advancement each year tells of their good producing qualities.

ANDALUSIANS.

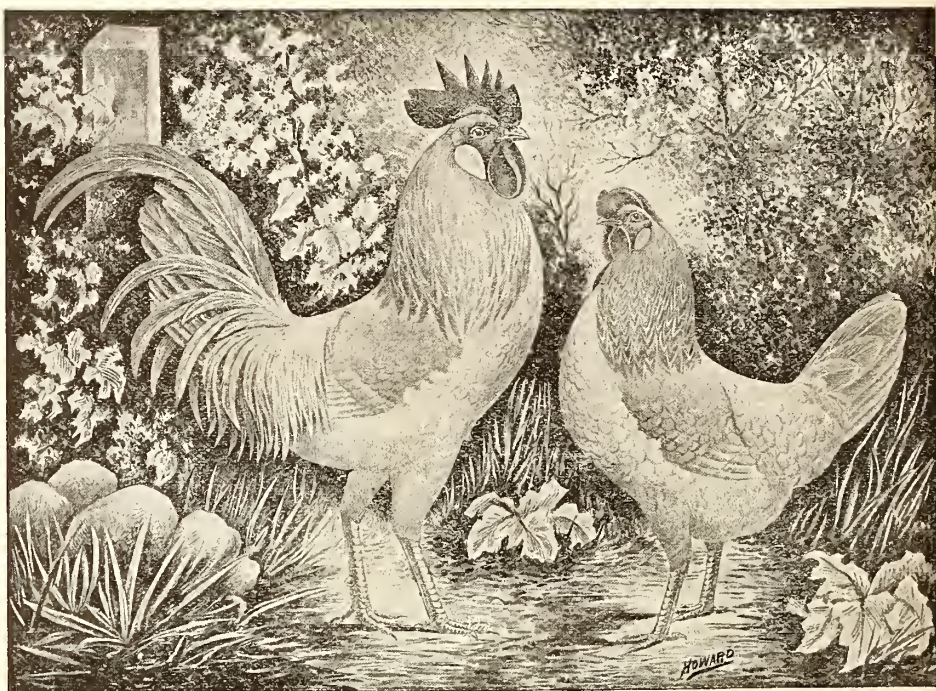
This, the Blue Mediterranean, is a middle-sized fowl between the Minorca and the Leghorn. They have the same comb and head-points as the Leghorn, the under-body color of the male and the entire color of the female a slate-blue, each feather edged with a darker color, as the Sebright Bantam is laced. The top-color and neck of the male, dark blue approaching black. Their natural shape and carriage are between the Leghorn and the Minorca with an inclination toward the Minorca type. Some prefer what is called the Game type, or shaped like the old-time Black Spanish. The fowl has gained in favor all along the line in the past few years, a well-deserved position, for they are truly a fine fowl, both for the fancy and eggs. They are quite attractive as an exhibition fowl, beautiful in the breeding-yards, not so wild as the Leghorns, and produce a fine-sized white egg.

The breeding of this fowl is a study for the keenest fancier, for to produce them of the beautiful combination of color with the finished lacing and with good head-points and top-color is not the easiest task in the poultry business, but to those who love the sturdy problem of the fancy it is an attractive task that gives renewed pleasure each time one better than before is produced. The Standard describes the sickle as dark slaty-blue. Some are seen with main tail and sickles both of the medium slaty-blue, which add to their beauty. With such the top-color of the male is a paler color than is usual and it makes a

finer contrast. Some females are as delicate in body-color as a blue pigeon, a shade most beautiful when properly laced about with a slightly darker color.

Those who can not be pleased with some one of these attractive fowls must attribute their lack of interest in them to a preference for other breeds, for in these we have a line of shape, color, beauty, and combs that must be admitted as a wonderful collection to select from, and as egg-producers they can not be excelled. This all willingly accord to this family, and in doing so no reflection is cast upon others that have as valuable qualities as these. The beautiful appearance of a flock of any of these varieties is fully in keeping with baskets full of the beautiful white eggs they produce.

every person to raise must be part of the day out in the open air or they will almost invariably get weak legs. No matter how you fix the house. You may bring in sand and earth, and cover the floor and open the windows or doors, but it will not do like liberty under the blue sky and life-giving outdoor air. In all my sixteen years of poultry study I know of but one man in this valley who could raise chicks off the ground and without an outside yard; but I have seen men and women, one after another, fail as they surely will, myself included. It is all right to have the brooder in a building and is very desirable; but keep it fully warm, then let the chicks run in the snow, or slush, or mud, if they must, to get out, for they will then live and grow, while if kept in where it is



PAIR BUFF LEGHORNS.

The Early Chicks.

Last week I had two appeals from THE FEATHER subscribers for information and help. How many more are in the same trouble? I know not, but I am sure there are many, for almost everybody makes the same mistake, and they do not know what is the matter unless somebody tells them. I also know the advice is too late for this season, but after we fail we are always in a good frame of mind to receive instruction and remember it. Others can be warned also. One party has been a subscriber of THE FEATHER for a number of years, yet he failed to catch the truth he needed out of all that has been written about the care of winter chicks, to avoid his present loss. Another one is a new recruit to pure-bred poultry.

The trouble is this: Each has had a strong, healthy brood of chicks in February. Each has a good brooder and kept them according to instructions in temperature and feed. Chicks grew finely for three weeks then their legs failed them. They became staggering and finally died. Some told them they were too warm, some the feed was wrong, etc.; but the whole trouble is the place. They each had the brooders in a building. One in a stable and the other a stable too, but more open. This is the truth of the matter. Chicks for almost

“nice and warm” they are likely to die. This is my plan, and that of many others who know their business. The first three days chicks must be in a warm, large, tight brooder if in a cold place, or if a poorer brooder in a warm room. Then in the same room for seven more days, or in any indoor room like a stable or poultry-house, then open up your yard and let them run, and leg-weakness will not visit you.

I am a firm believer in plenty of warmth and a brooder like the Peep-O-Day. Have it 100 degrees when the chicks are in it under the hover, and if they are too warm they will soon drift to the edge where it suits them best and if a cold storm comes in the night you have heat to meet it, and the chicks simply shift in a little while. If you have it just right with the chicks in well under the hover, or near the center and the wind shifts to the north as it does lots of times in February and March, in three hours, they will be too cold and crowd and may spoil your whole lot.

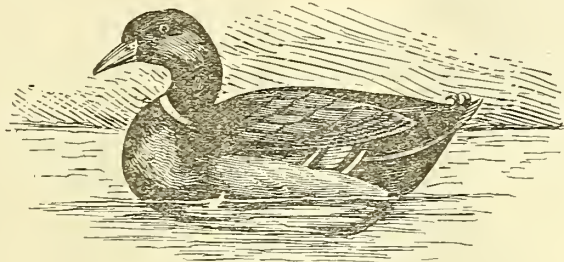
For feed I like dry feed, like steel-cut oatmeal, ground glass for grit, and charcoal for a sweetener. I add a little meat after the sixth day, and some soft feed soon after a week goes by. Feed and watch your brood, is the law.

—W. W. KULP.

DOMESTIC DUCKS.



The Rouen Duck is an improved Mallard or Wild Duck. As the name would imply they are credited as of French origin, but as we now have them they are largely perfected in England. They and the Aylesbury have long been cultivated for market and exhibition in England, and, as stated above, as we now see them in their highest qualities are



MALLARD DUCK.

exclusively English, and the most peculiar part of it all is that but few in this country or in Canada pay special attention to them. Mr. Charles McClave, of Ohio, is about their most ardent admirer with us, and he has cultivated them for years of the highest quality.

The Aylesbury is a white duck of large size and quick growth. They have been a favored market duck in England for over fifty years, and their origin goes back much beyond this. They were sent as young ducklings to the London market prior to 1870, weighing seven pounds per pair at six weeks old, selling from nine to twenty shillings per pair at that early day according to the season of the year. To-day this is changed somewhat, but these two are the favorites still in England and rank as table poultry with the Dorking and Houdan.

One marked peculiarity of the Aylesbury is its pale flesh-colored bill and orange-colored shanks. Our Standard demands that the Aylesbury shall be of larger size than our Pekin. The Rouen is of the same size as the Aylesbury, and it is quite usual to see a pair of fine exhibition Aylesburys or Rouens tip the scales at from twenty to twenty-two pounds. No duck is better for all purposes than these and they should have more attention as a winter market duck.

The Pekin is our American favorite. Thousands of them are grown each year for green ducks or broilers. These are usually sold at from nine to ten weeks of age and weigh from nine to eleven pounds per pair, the price ranging from seventeen to thirty cents per pound. These prices cover all seasons and all qualities, the higher grades bringing, of course, the best prices at all seasons. These ducks are of Chinese origin, and are the quickest of growth of any of our ducks. They might be called non-sitters, as they very seldom show either an inclination to lay their eggs in a nest or to sit upon them, their habit being to lay their eggs just wherever they may be when the time comes. For this reason they are kept shut up in their houses until near noon each day so the eggs may not be scattered about and lost.

The rearing of Pekin Ducks has become a business in this country, and is

fully treated of in U. S. Farmers' Bulletin No. 64, that can be had of the U. S. Department of Agriculture for the asking. More attention should be given the growing of ducks for winter market. They could be hatched by ducks and kept in sight and away from harm and the water till out of danger and then allowed to run with the mother-duck till winter, when they can be quickly fattened and sold for better prices even than fowls, but if put into the market in poor condition they will

not bring as good prices. Well-favored winter ducks under one year old always sell well; for this purpose none is better than the Rouen, for they will care for their own young.

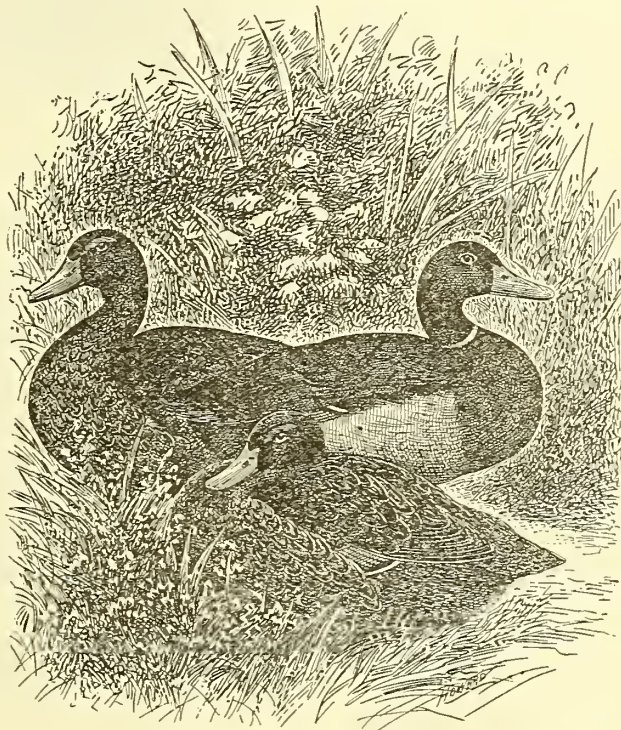
The Cayuga is the Black Duck of North America. Their original home is said to have been upon the lake for which they are named. Much has been done for them in the past fifty years,

plumage with dark shanks, are quite hardy and prolific, and would prove much more profitable as a market duck than some of the new varieties that are thrust upon us from time to time. They have the real quality in them that has stood the test of fifty years and will continue for all time.

The Black East Indian Duck is of the same type or style as the Cayuga, but considerably smaller. These are seldom seen with us; in fact, do not remember having seen any of them even at our largest shows in several years. For size they would not be selected and could not compete with the other ducks for market use, and would be classed more as ornamental than useful.

The Call Ducks, Gray and White, are really Bantam Rouens and Aylesburys. The one is colored like the Rouen, the other pure white with yellow bill and shanks. They are very small, and the smaller the better. They are beautiful little ducks, and gain their name from the shrill little call they give forth, not unlike the squall of a Guinea-pig. At their best they are about the size of the little Wood Duck. Of late years they are seen quite often in our poultry shows. Another ornamental duck is the White Crested Duck. They are a medium-sized white duck with a ball-shaped crest on their heads. When the crest is of proper form they are a handsome duck.

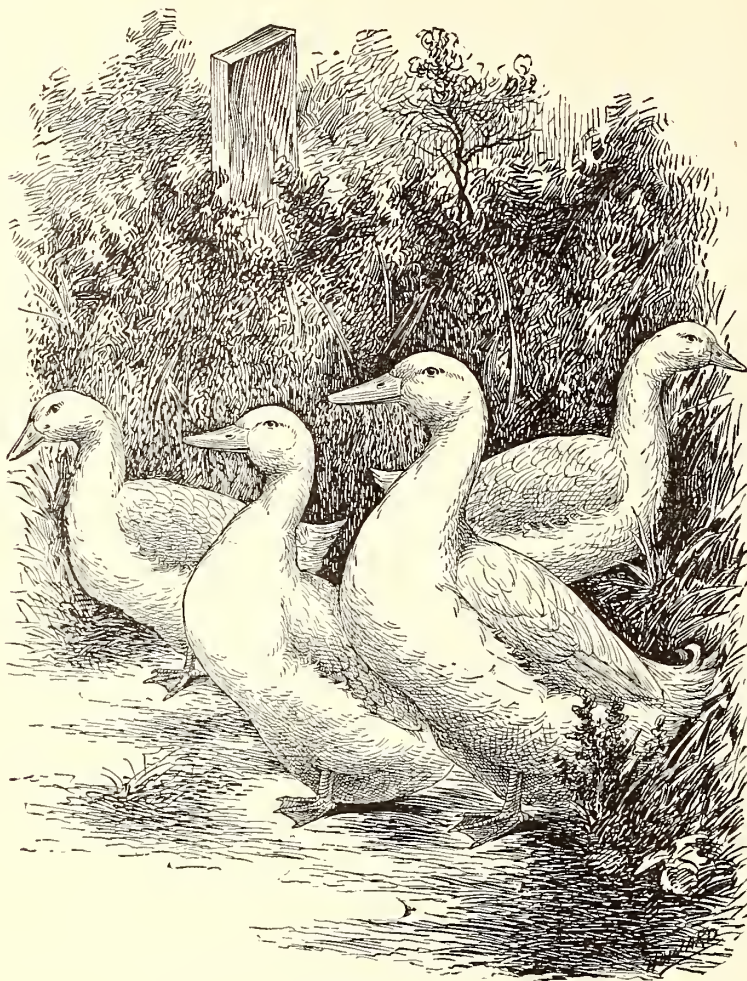
The Muscovy Duck has been more cultivated and shown in the past few years than before. They are greatly improved in size, shape, and color.



ROUEN DUCKS.

but like other of our fowls they can be found to-day of better quality on the other side than with us. Of all ducks grown none has the fine flavor as table fowls that they have. They are naturally a table duck par excellent and should be cultivated for their personal good qualities as well as for the credit of our own production. They are about the same size as the Pekin, solid black

Some beautiful solid Blacks are seen. Broken colors, black and white, is the standard for the colored variety but the rich, glossy black throughout, with the red face, is quite attractive, as is the solid white. These are the largest ducks we have, and until within a few years they were only kept by a few as curiosities, but now some attention is paid to them and this has brought about



PEKIN DUCKS.

their improvement. The feature that bars their progress is the ill temper of the drake at all times, and of both during the breeding season. It is not unusual for them to injure children and to attack both men and women. A kick or a knock with a club settles them, but timid children and women may be injured by them. They are good table ducks.

The Indian Runner and the Blue Swedish are the new standard ducks. Both of these have been much written about in the past few years and all should be familiar with them. The Runner is a small duck, white and light fawn or gray in color. They are fine layers and grow quickly into table size. They are said to be the best adapted for the farm, because they lay well and fill the demand for a medium-sized table duck. The Blue Swedish is a new breed that has not been tried to any extent, but is well spoken of by those who know the most of them.

The Mandarin Duck and the Wood Duck are beautiful little ornamental ducks of exquisite plumage. Scarcely could we devise a more beautiful laying on of plumage than they have. The rich blending of colors and beautiful head-ornaments make grace itself. Large numbers of these are shown each winter at the large eastern shows and attract considerable attention. The Wood Duck is of native origin with us. They are called the Carolina Duck, the Summer, and the Wood Duck. The Mandarin is also called the Chinese Teal. They come from China and are

greatly prized in their own country. The first of them came to England in 1850 it is thought. Since then they have been distributed all over the world. The drake of this breed is quite quarrelsome with all other than his mate.

The Whistling Duck, the Bahama Duck, the Japanese Teal, the Falcated Duck, and the Spotted-bill Duck are all rare ornamental ducks that are seldom, if ever, seen in this country. All these are classed among the non-standard varieties and are only cultivated by lovers of water-fowls. In addition to these we have many kinds of wild ducks. Of these none is more prized than the Canvas-back and the Red-head—two kinds usually found together. They are the most popular of all game ducks with us, unless it be the Black Duck that is very highly prized.

The Goose Family.

Ages ago the goose was, and they continue the same to-day. In all quarters of the globe they prosper and they are of as many kinds almost as there are countries on the globe. With us the American Wild Goose has the position of original to the country. Early writers mention them as the American Wild Goose. When admitted to the Standard we named them Wild or Canada Geese. Naturalists say they are no more a goose than is the swan, so we might have called them the Bearded Swan to conform with the beard in

Tumbler Pigeons that have about the same white marking on throat.

The domestic or common goose of the world is by some claimed as the descendant of what is called the Gray Legged Goose. For all purposes this will do for us for at this time the goose family numbers so many well-bred families of separate origin that the old gray goose is dead to all intents and purposes when considered as one of our breeding families for market geese.

The Toulouse Goose, the goose of France, like the Bronze Turkey, takes the lead for favorite with us as an exhibition and heavy-weight table fowl. Dixon claims the Toulouse to be an improved and enlarged common gray goose that has gained the size by care in breeding and feeding, in the warm climate of Southern France where the eggs would be laid early and the young have a chance to grow very large, where green food was so very plenty for so long a period of time. Be this as it may, we all know that care and feeding continued in will add considerable size to fowls of all kinds.

The Embden Goose, or the Bremen Goose, the goose from Holland, that takes its name from the town of Embden, is a very large white goose quite like the common goose in all but color, and may be of the same family or an improvement of the common goose as is claimed for the Toulouse. The first of these geese that came to this country were brought from Bremen to Boston; Eben Rollins brought them over for Colonel Samuel Jaques, who called them Bremen Geese, for the port from which they came. Later the proper name was given them. Some time after a Mr. Sisson brought some into Rhode Island. They are to-day one of our most popular market geese. They are pure white, both male and female, and weigh fully as much or more than the Toulouse; a fully-matured pair will weigh alive from thirty-five to fifty pounds. When dressed for market they average with the best-sized turkey.

The Brown and the White Chinese Geese have been known as the China Goose, Hong Kong Goose, Knob Goose, Swan Goose, Poland Goose, Muscovy Goose, and other names too many for record. Those known under all these many names differ somewhat from our standard Brown and White Chinese Geese. With these geese, as with the Muscovy Ducks, the male is considerably larger than the female. They are also disposed to be very noisy; the least disturbance at night will start their clamor. Some who live in out-of-the-way places keep some of these geese and a few Guineas for protection, the presence of a stranger starts them into such a clamor as to arouse the household. The Brown variety is of a light brown or grayish-brown color, the other pure white. Both have a large-sized knob on the head just at the base of the bill. The Chinese Goose has a long, slim neck that is beautifully arched but no sign of a dewlap. Bill and shanks of the Browns are rather dark, the Whites have the orange-colored bill and shanks.

African Geese, while somewhat like the Chinese Geese, can always be told by their black bill and knob, the dewlap at the throat and the heavier body. A dewlap on the Chinese Geese should debar them as its absence should debar the African. The general carriage of the Chinese is more graceful and they are a smaller goose. There is no excuse

for one to be taken for the other, as their shape is different and the Chinese is a small, graceful goose and the other a heavy goose, and a light and dark gray in color, while the other is gray and brown. The African Goose is of larger size and heavier than the Chinese Goose, so we can not understand how it is possible to get them mixed as exhibition specimens, but we have seen each shown as the other, but usually this is at fairs or at small shows where amateurs abound. Two very essential features of the African Goose is size of body and prominence of knob and dewlap. As compared with them the Chinese Geese are small and finer built in every way.

The Wild or Canada Geese are natural to this section of the world and might be termed the "American Swan," as they are fashioned more like the swan than the common goose. This variety is included in the list as a standard variety as is the Egyptian Goose which is a most beautiful fowl, but so apart from all others as to be in a class by itself. The Greek name of this signifies Fox Goose, which indicates its cunning and vigilance. This variety of geese is found in abundance about the Nile and in Africa. It is recorded that they were held in veneration by the ancient Egyptians and their figures are found inscribed upon the old monuments. The plumage of this goose is beautiful in the extreme, being a rich combination of purple, orange, yellow, chestnut, with white and black markings.

A pair of Barnacle Geese were on exhibition in New York City early in the fifties. They came from Greenland. This is somewhat like the Canada in shape and color. Besides these we have a smaller wild goose called the Brant, which is a fine game bird.

As an ornamental goose we have the Sebastopol, that is a plain white goose with long, curling feathers on the back and the wing-secondaries curl up as do the tail-coverts. This is a medium-sized goose weighing about ten or twelve pounds. They are equal to any as table poultry.

Success With Poultry.

Those who succeed best in the handling of poultry are those who give the greatest amount of attention to the subject at hand. Some people who keep several hundred hens for market, eggs, and poultry are able to make from \$1.50 to \$2 on each fowl kept, while others will not make anything and sustain a loss. This is the outcome of poor management, careless feeding and care, as against good judgment and the best possible management of fowls. All might do equally well as the best if they would give the proper attention to the subject at hand. The poultry journals are continually full of the best and most successful methods of handling poultry. At the same time hundreds go on in the same old slipshod manner that has been in vogue for so many years.

Hens that run about the farm during the summer months can find that manner of food which is best calculated for making eggs. For this reason the hens lay plenty of eggs during the summer. Corn, greens, and bugs make a splendid ration for the summer food. This same ration must be made good in winter by feeding green bone or meat scraps of some kind to take the place of bugs and worms that the hens find in summer.

If the proper proportion of grain food and meat were provided in winter and the hens compelled to scratch in the litter for all the grain they get to eat, many more eggs would be laid.

Growing Squabs.

There has been an effort to start a boom in squab raising. We are opposed to booms of any kind. Belgian Hares were boomed out of sight and they had to come to earth again. So it would be with the squab business if pushed to success. Believing, as we do, that there is money to be made in squabs, we published a book on this subject some two years ago. This book has had a continued sale and has, we feel sure, aided many in the growing of squabs, but squab growing is like the growing of anything else, it will prosper only under proper conditions and surroundings. If the conditions are not as they should be no good results will come. Nothing can grow on a barren waste. Squab raising will surely fail if not properly done.

The buying of a few pigeons is not all. We must know how and where to house them, what to feed, and when and how to feed it, how to nest them, also how to care for them and the young. All this must be understood and looked after in the proper manner or you will not succeed. It will be well for all who grow squabs or who contemplate the growing of squabs to have our book, "Money in Squabs," price 50 cents, for this will enable all to grasp the situation and succeed in their cultivation. Nothing is pleasanter than to have your own squabs for table use.

The best kind of pigeons for squab growing are large white pigeons, or Homers. If you can not have the white pigeons, Runts are grand for this purpose, but rather expensive to start with. Homers are more used than any other kind and they make full, plump squabs, that grow quickly because they are heavy, strong feeders. All pigeons that are strong feeders will grow fine, large squabs. It is the regular, strong feeding that makes them grow, and in addition to this the proper kind of food must be provided so that the parent birds can have the full supply of feeding. Select the best white pigeons you can find for breeders. White Homers are good or any kind of a white pigeon that is large and strong. It is, also, a good plan to save the largest and finest squabs for your future breeders. Never mate a pair from the same nest for growing squabs. Never in-breed for squab growing.

Dressed Poultry.

There can be no possible doubt but that the best way of dressing well-favored poultry is by dry picking. Those who understand preparing poultry for market all use this system and they do not hesitate to say that nice, plump poultry looks much better when prepared for market by dry picking than any other way. When this work is well and properly done the poultry always looks round, plump, clean, and most salable. Even this kind of poultry can be improved by plunging into ice-cold water after it has been allowed to cool.

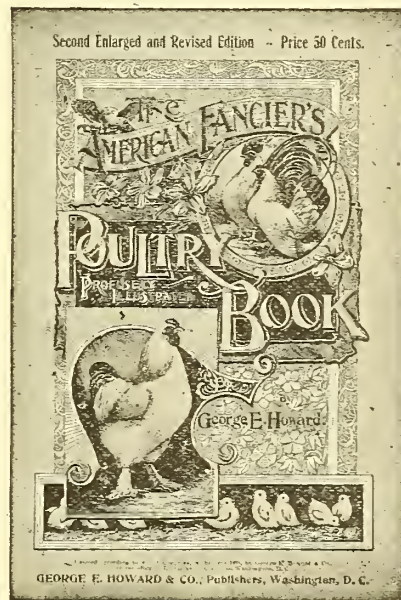
The scalding of poultry when plucking is duly practiced throughout the United States and is admitted to be the best way of removing the feathers from ill-favored, under-fed, thin specimens. There is one question that is not thor-

oughly settled in practicing this method, and that is as to the temperature of the water used for scalding. Some of those who have been very successful in preparing poultry in this manner claim that the water should not be too hot for fear that it may scald the skin of the fowl and make it look unattractive, while others argue the reverse.

When visiting an extensive handler of poultry a short time since in Western New York, I was very particular to inquire as to this, and the owner of the place took us into the scalding-room where he had a very large kettle packed in with brick and he said that they dipped all the fowls into this kettle when scalding. He kept the water just as warm as it could be without boiling and bubbling up in the kettle, believing, he said, that it was best to have the water just as hot as it could be without actually boiling the outer skin of the fowls to be dressed.

These differences of opinion and methods of dressing poultry show plainly how little absolute information we have on these points. It is to be wondered at that more attention is not paid to the settling of these questions so that all who handle poultry for market may become thoroughly informed as to the most profitable manner of dressing it.

The American Fancier's Poultry Book.



"The American Fancier's Poultry Book" is one of the best books we have ever offered to the readers of THE FEATHER. It is a grand book, and has been praised by all who have seen it. It is a practical book, and should be in the home of each and every lover of poultry. No matter how much you may know about poultry, you will be certain to find something new in its pages. To the novice nothing better could possibly be recommended. This great book contains illustrated chapters on The Poultry Industry, General Management, The Egg, Incubation, The Chick, Recipes for Feeding, Feeding for Eggs, House Building, Keeping Eggs, Caponizing, Diseases, The Standard Breeds of Poultry, The American Class, Asiatic Class, Mediterranean Class, Polish Class, Hamburg Class, French Class, English Class, Game and Game Bantam Class, Bantam Class—Other Than Game, Miscellaneous Class, Turkeys, Ducks, Geese, and Swans. **Price, 50 Cents.**

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305 10th Street N. W., Washington, D. C.



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GEORGE E. HOWARD, Editor.

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JUNE, 1902.

Cost of Feeding Poultry.

There has been and always will be a difference of opinion as to what it costs to feed a hen a year, and the same difference of opinion is expressed as to the quantity of food consumed a year by each hen. We give below a few recent estimates gathered on the subject which show clearly the unsettled state of the question, and we are of the opinion that it is as much with the feeder as it is with the fowls:

The average estimate throughout the United States shows that it costs about \$1 a head per year to feed poultry. The unusually high prices of grains of all kinds the past winter have increased this average cost somewhat; at the same time poultry and its products have advanced in prices, which equalizes the expense. Throughout New England the record-proofs show that it has cost from \$1.20 to \$1.35 per fowl, while in the West some claim to have fed their hens for considerably less than this.

One party in Pennsylvania makes the following report: The account being kept of eleven Plymouth Rocks, the records show that these hens consumed in one year 182 pounds of wheat, 101 pounds of corn, 150 pounds of buckwheat, 150 pounds mash mixture, 60 pounds of clover, 100 pounds of oats, and 150 pounds of green bone. The total cost of this was \$7.72, each hen having consumed 81 pounds as follows: 53 pounds of corn, 13 pounds of bone, 5 pounds of clover, 10 pounds of oats—a total cost of 70 cents per hen. The mash mixture which was fed to these hens was composed of two parts of buckwheat middlings, one part each of cornmeal, ground oats, wheat, bran, middlings and others. To this mixture was added one part of clover, and the entire mixture was well steamed and allowed to sit over night before being fed.

These records prove that these Plymouth Rock hens were very economically cared for. When we consider, this is eighty-one pounds of feed per hen as against what some people claim they feed, one would be led to think that these fowls had been under fed or that others had been considerably over-fed.

One gentleman in New Jersey writes that he is feeding eleven pints per day in cold weather to his twenty-five fowls; on the basis that a pint is a pound, this is in round numbers almost seven ounces per day to each hen, or 160 pounds per year, nearly double the amount reported in the other case. We can not believe that it is possible for the average hen to consume so much as recorded in the last case, but think the first represents rather light feeding. The records at hand show that people are feeding all the way from seventeen to twenty-six pounds per day to one hundred hens. In some cases as good results have been obtained where the smaller amount has been fed as was obtained by the use of the heavier ration. This can be accounted for on the ground that one lot of fowls was better housed and kept warmer during the winter than was the other lot; also, small birds would eat less than larger fowls would demand. Then again, some over-feed and waste, while others use better judgment and feed just enough to obtain the desired results. These are reasonable, every-day conclusions that all can make use of to their profit.

Nature's Demands.

Grain, grit, greens, animal food, and water are the absolute demands for the successful existence of poultry of all kinds. During the winter months we hear so many complaints of hens not laying. How is it possible for the hens to produce the eggs when you fail to furnish the proper food for the component parts of the egg, which may be found in the above list of nature's demands if given in the proper proportion?

During the winter months hens should have at least one-tenth of their entire ration animal food of some kind. When we say one-tenth of their entire ration animal food, we do not wish you to understand that we would feed them one-tenth of their entire food each day of cut green bone or any one kind of raw meat, but we would be certain that they did receive at least one-tenth of their entire ration in meat of some kind.

Cut green bone is a most excellent, but oftentimes quite expensive kind of food. Where the green bones cost over one cent per pound and the labor of cutting must be added, it is not as cheap a food for the hens as is the very best grade of nice, sweet, prepared beef scraps, even at two cents per pound. Never make use of the cheap grades of prepared meat of any kind, and never, under any conditions whatever, feed meat or food of any kind to a laying hen if such food gives off an unpleasant odor when mixed with scalding hot water or when being cooked.

So sure as you feed to your hens food of any kind that smells bad when scalded you may rest assured that the same odor will be transmitted to the eggs. This is what injures them very much for table use. It is quite as easy to taint the flavor of the egg as it is to taint milk or the most delicate cake or pudding. Hens should be fed for fine flavor in the eggs as carefully as cows are fed for the production of good milk. Green food of all kinds is very palatable to the hen, but cabbage and turnips are more likely than any other of the green foods if fed in quantities to slightly taint the eggs. Of course, we all understand that on-

ions and garlic entirely destroy the flavor of eggs when fed to the hens. Nothing is better during the winter months for the hens than nice, well-cured clover hay or grain of any kind cut fine. Timothy hay is not fit for this purpose. Nothing but clover hay or well-cured lawn grass is suitable.

During the summer months vegetable tops or green stuff of any kind is good for the hens. If you have well supplied the demand for meat and green food then it is only necessary to provide them a well-assorted ration of grains with plenty of grit and water. It is always best to make them hunt and dig for all the grain that they get. If this method of caring and feeding the hens be carried out they should produce plenty of eggs during the winter months.

Grit, ground oyster-shell, and broken charcoal are all three of great benefit to the hen. Grit and lime produce material of the same kind which she must have and the charcoal is a good absorbent as well as a sweetener as it passes through the crop and gizzard. All three of these can easily be supplied to the hen and will repay the trouble and expense. It is not necessary to do foolish things in caring for one's hens; nothing but that which will increase the profits which always come with a good egg-yield will pay, and should not be kept from them. At the same time it is possible to be so extravagant in the manner of feeding as to make it impossible to have a profit. All should use true economy in the selection of the foods given their hens.

Chickens and Eggs.

This is no fairy tale, although I will admit that it does sound something like the yarns of Munchausen.

It's about that darling humble hen, who sings not, neither does she spin, but she lays eggs to beat the band.

This story is gospel truth and it's worth pasting on your cash-drawer, or somewhere else, so that it will continually remind you of one lead-pipe cinch that the farmer has got on this whole world.

She laid enough eggs last year (I'm a talking about the hen) to more than pay off the receipts of the Postal Revenue, or to have paid the entire expenses of the War Department of the United States.

Oh! she's a good hen.

If you'd drop all the eggs she laid in 1901 on to the United States Navy, they'd sink every battle-ship to kingdom come, and still leave some eggs floating.

If you'd take a train to Chicago, and look out of the car-window and see a chicken along the track every four feet apart, you'd think it funny—"wonderful!"

But it's gospel truth, that there are enough hens and roosters in the United States to set one every four feet, along every railroad track in the United States.

There are 284,000,000 chickens in the United States, and 191,000 miles of railroad.

You can set 'em along (the chickens) and figure it out for yourself.

What a graft the farmer has got!

In 1901 this bunch of chickens laid 10,000,000,000 eggs.

That's only an average of thirty-eight eggs a year.

The average seems low, but that's because some chickens do not lay all the time, and some never lay.

If Congress should pass a law, and make an equal division of all the chickens in the United States, there'd be about $3\frac{3}{4}$ chickens for every man, woman, and child in this country, and about 142 eggs each for every one of us.

ELM POULTRY YARDS

OF HARTFORD, CONN.,

Are offering great Bargains in Breeding Stock of S. C. White Leghorns, S. C. Black Minorcas, Barred Plymouth Rocks, White Plymouth Rocks, White Wyandottes, and Light Brahmas. 3,000 chicks now growing for fall trade.

ELM POULTRY YARDS,

Box F, Hartford, Conn.

Oh! she's a great hen.

Eggs are not such heavy affairs either. Some will weigh two ounces, and others won't weigh more than an ounce and a half.

All the eggs laid in the United States last year would weigh about 655,000 tons, or about four times the tonnage of the United States Navy.

If all the eggs in the United States were rolled into one, the bunch would make an egg about 150 miles long and as big in proportion the other way.

If all the hens in the country were rolled into one she would make a nice Thanksgiving dish, weighing about 1,000,000 tons.

Oh! she's a warm hen.

I wish I was a farmer.

He's a peach, and his hen is a bird.

On account of the faithfulness and industry of the American hen we don't think much about her.

If she was an inconstant, frivolous female, she would probably worry us greatly.

Eggs are money, all kinds of money, and the farmer and his wife really do not realize it.

They are money, and better money than gold will be when the Klondike thaws out.

The hen deserves helping along.

I love eggs.

Oh! she's a darling hen.

The farmer's got a cinch.—*The Retailer's List.*

Testimonials.

"I have taken some half-dozen poultry journals, but THE FEATHER is the best arranged of any."—J. M. MOODY, McColl, S. C.

"I think THE FEATHER is one of the best poultry papers in the country. I have gotten more good recipes and practical information from it than from any journal I have read yet, and I keep all my papers on file so I can refer to them at any time."—WM. J. BUSH, Greensburg, Pa.

"Our advertising in your journal has been very satisfactory, and we intend to continue with you."—H. B. GREGORY & SON, Akron, O.

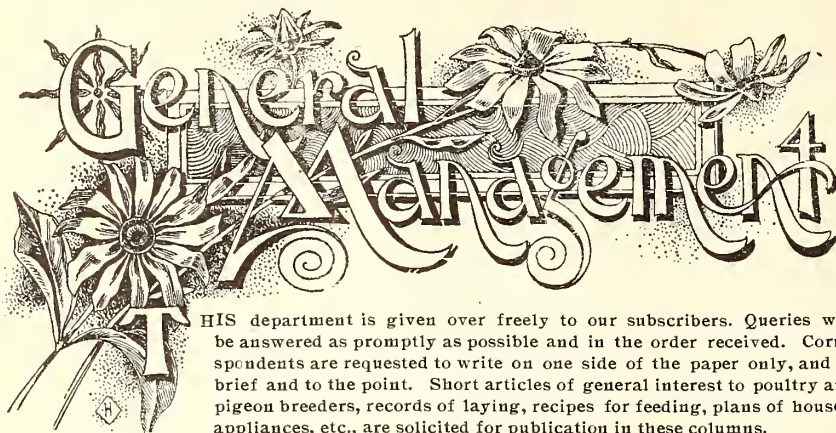
"I received THE FEATHER a short time ago and will say it is an up-to-date poultry paper. I take six, and to my mind it is the best, finding better articles on poultry culture than in any ever received."—M. B. AYERS, Turtle Creek, Pa.

"My calls for circulars from THE FEATHER are of almost daily occurrence."—J. H. DOANE, Gouverneur, N. Y.

"It is true that our members state that they get the best results from ads in your paper."—WM. P. COLVIN, Sec'y Elmira Poultry Ass'n, Elmira, N. Y.

"THE FEATHER is the best poultry paper produced in the United States."—L. D. WILDS, Philadelphia, Pa.

"I received more inquiries from my ad in your paper last year, and sold more stock than from all the others put together."—J. BYRON HUMES, Venango, Pa.



THIS department is given over freely to our subscribers. Queries will be answered as promptly as possible and in the order received. Correspondents are requested to write on one side of the paper only, and be brief and to the point. Short articles of general interest to poultry and pigeon breeders, records of laying, recipes for feeding, plans of houses, appliances, etc., are solicited for publication in these columns.

Advice to Beginners.

Editor The Feather:

The raising of poultry has developed into an industry within the past twenty years that seems destined to become one of the leading occupations. People read in poultry journals of breeders who make several hundred or a thousand dollars, or even more, on a certain number of fowls, and as we Americans are all imbued with that money-getting motive we are encouraged to give the business a trial.

Now I believe that seven-tenths of the beginners who start with a few and work their way up will become the most successful fanciers. When a beginner selects a breed he should be careful to select that which will produce just what he wants, as each breed excels the other in one or more lines of productiveness.

It is an easy matter for the beginner to select providing he knows what he wants. Many a beginner in selecting his breed will turn his whole attention to plumage; while it is true that fine feathers make fine birds, it is also true that fine feathers do not always make good birds. It seems to me that the fanciers of the Barred Plymouth Rock pay too much attention to the barring on the feathers and neglect, to some extent, the shape, size, and vigor necessary for the foundation of a good strain, while the same holds true with the striping of the Leghorn or the lacing of the Wyandotte.

Having selected the breed it is necessary for him to know how to mate in order to reproduce and overcome any defects that appear on his fowls from year to year. If the beginner raises them for show purposes the judge or some one else may tell him to improve a little on comb, wattles, eyes, or something else, and while he is turning his whole attention to one defect probably several others may crop out. I do not call that man a successful breeder who goes to some one else and buys his best birds year after year and wins premiums with them at the shows and then advertises so and so on his stock.

Many people think that when they have a good breeding-pen they have all that is required to raise good stock, and true it may be as far as blood line is concerned, but I have seen some of the best line-bred birds in such condition that many a beginner would hardly have given ten cents per pound for them. Now I believe that a large share of the success lies in the raising and feeding of chicks. When they are raised for market broilers and not for exhibition purposes an incubator and brooder will

answer very well, providing the one who cares for the chicks understands his business. If they are raised for the show-room I would advise the beginner to use "Mother Nature," not because I think the incubators and brooders are worthless, but there is a certain amount of knowledge and experience necessary to regulate the temperature of each.

Many a poor fellow invests his last dollar in these artificial means of hatching and raising stock with the expectation of reaping a golden harvest with little or no labor. It is not my intention to condemn incubators and brooders, as I am using them myself and paid a fair price for the little knowledge I possess at present. While it requires the utmost skill of the adept to get any way near to nature, I do believe that the trials and vexations the old hen has caused when trying to make her sit on high-priced eggs has led many to resort to artificial incubation and made strong advocates of them, while on the contrary many a person has been so disappointed in his first attempt at these artificial means that they sell out at any price and anticipate an entire failure to those who desire to give it a trial. We are not all endowed with the same faculties of reasoning, and that which may do well for one might not answer for another.—WM. B. WISLER.

Roup or Catarrh—Cause and Cure.

Editor The Feather:

I see in the poultry papers that roup or catarrh makes much unpleasant work and loss to poultrymen. I had the same trouble in my flock of thirty hens in 1895 or 1896, and I either cured them or they got well some other way. I would like to tell what I did and what appeared to be the result.

As I have not had the disease among my poultry since, of course the opportunity to prove it has not been my privilege, and if some one will try it and report results to you I may be able to know through your paper. It certainly will be easy to cure if the cause is as stated, and a cure will surely be welcomed by all poultrymen.

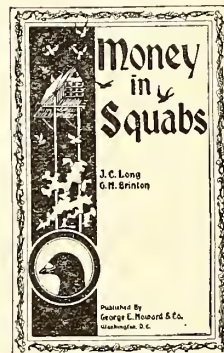
I divided my poultry into three lots: Lot No. 1 had one corner in the barn 6x10 ft. with plank floor and sound roof, straw in loft and all cracks battened. They had a run of about 14x16 ft. that had been used for poultry for about twenty years. This run was sheltered on the north by the barn, on the west by tight board fence, and pickets for the rest of inclosure, top open. Lot No. 2 was south of lot No. 1, with roosting-

place 4x8 ft. and 5 ft. high, boarded on sides and ends, cracks open, tight roof, and a ground floor. The run was 8x10 ft., open work all around. Lot No. 3 was in a small barnyard 12x20 ft. sheltered west by barn, side (east) and ends made of 1½-inch plank, 5 ft. 4 inches high, top open. No shelter, they roosted on the edge of a box and on a pole.

The hens in all the lots seemed to be well, plump, and bright until they began to molt, which they did early. At this time I unwisely thought it best to give them all the buckwheat they could choke down in the morning and also of corn at noon. No feed at night. In a short time each lot of hens gave evidence of throat trouble, more or less, and in a few days their heads began to swell. Of course a few in each flock were not affected, but it was quite general in each lot. They were the worst in lot No. 3. In this lot one hen's eyes were closed so that she could not see—as proof I saw her run against the side of yard twice. Thirty-six hours after I discovered she was blind her eyes had opened a little. I did not feed her during the thirty-six hours. I knew she had been without food for that length of time. I immediately concluded not to feed the others for thirty-six hours. Then I put them on one-third rations for a week, including the thirty-six hours, and at the end of the week no one could see from their looks that anything had been the matter with them. They were cured and I haven't had a case of it since. I would say that when

Money in Squabs.

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The most interesting and the only practical book published on raising squabs for market, is our book entitled "Money in Squabs." This book has had a most generous sale during the past year, greatly exceeding the expectations of the publishers, and is, without doubt, the only reliable publication of its kind. "Money in Squabs" treats of every topic pertaining to pigeon raising, and is illustrated with the most modern and practical ideas for housing and breeding pigeons on a large as

well as a small scale. You will surely be interested in the industry after reading this book, and the information gained will be worth many times its cost to you. "Money in Squabs" contains chapters on the following interesting subjects:

Introductory, Breeding Houses, Breeding Stock, Distinguishing Sex, Food and Feeding, Water, Salt, Nesting Material, Maure, Breeding and Management, Dressing Squabs for Market, Shipping and Selling, Diseases of Pigeons—Canker, Cholera, Egg Bound, Enteritis, Going Light, Roup, Small Pox, Sudden Colds, Wing Disease, Worms—and Douglass Mixture. Some of the illustrations are: Full-page drawings of Homers, Runts, Dragons, and Duchesse Pigeons, Plans of Single, Double, and Continuous Houses for Breeding Squabs, Arrangement of Aviaries to a Garret Room and to a Barn, Plans for Building a House in the Back Yard, Plans of Nests, Perches, Mating Boxes, Bath Tubs, Drinking-Fountains, Salt-cat and Grit Boxes, etc., etc. This book is thoroughly practical, reliable, and of untold value to all who are interested in raising pigeons, for profit or pleasure. **Price, 50 Cents.**

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feeding such small rations it was nice fall weather; if it had been cold, would have been obliged to feed more or put them in a warmer place. These fowls were kept in same yards while sick that they were in when well, or when taken ill, and I also fed them the same food.

My conclusion is that the cause was overfeeding, and the cure to feed but little so that nature could do the cleansing quickly and thoroughly. — GEO. QUACKENBUSH.

Get Ready for Exhibition.

The wiser heads say you should have gotten ready to grow your show birds of this year four or five years ago. By this they mean that show stock must be line bred, well bred, true bred, and standard bred from way back. This is true all the time and in every case, for no one can have true form and color unless they establish it in this way. At the same time this is not all, for we must line breed from the strongest, best, and most vigorous specimens we can select. Inferior or weakly specimens are all the more dangerous if line bred. To succeed we must learn to line breed to improve, not to disable and weaken. It is just as possible to add to all qualities when line breeding, as it is to take from them their beauty, size, or vigor as may be the case. To do this demands judgment and care.

To succeed in growing show birds they must be pushed right along from the shell to the show-room. Next to the quality in breeding stock, must come the quality in feeding. Fowls well bred and fowls well fed give good results if both qualities are united in the same fowl. Either without the other will most likely fail to win a prize. It is the ability to develop into superb maturity that makes the well-bred specimen a winner. For this reason it is well to begin on the exhibition specimens as soon as they are out of the shell and never let up until they are complete.

Many disappointments come to those who neglect the growing chicks. There is only one reason that can be given for a failure to grow the chick into proper maturity and that is neglect, every time and all the time, and those who fail are those who have the show fever hot when cool days come but cool off when the days are hot. To succeed with hens one must hustle 365 days in the year and hustle good and hard each and every day. If they don't do this they get left as sure as they go into it.

Fowls well bred and fowls well fed
That have the size, the shape, and the color,
Are the ones that will have the blue and red.
When the time comes for show fowls to gather.

The Fertility Question.

Editor The Feather:

I read with interest the many good and valuable articles that appear in your paper on the care and improvement of poultry, and those on the fertility of eggs and the best method of producing this desired result are especially read and digested, and while my attention to pure-bred stock is of comparatively recent origin, I have raised poultry for many years, and through that experience and observation I am led to disagree with many of the writers of to-day, both as to number of hens that are most advantageous for one male bird, and as to the average fertility of eggs; and with the article that appeared in your March issue,

"Infertility—can it be overcome?" I especially take issue, for while it is well written and apparently founded on fact, I feel sure that the writer takes a very pessimistic view of the subject when he claims that the average fertility is not above twenty-five per cent, even for the winter months. I want to say to your readers that for several winters I raised broilers and depended largely on buying eggs wherever I could get them and only on one or two occasions did the percentage of fertility fall as low as twenty-five per cent; and should any breeder send me eggs that were so infertile I should certainly make claim on him for my loss, and if said claim were not allowed I would certainly see that he did not sell me or my friends any more of such stock.

Now for a few facts from a page of my own experience. On January 18 of this year I sold a customer 220 eggs and guaranteed him eighty per cent fertility. After they hatched he told me they fell short of my guarantee eight eggs, or about seventy-seven per cent fertile. I placed in my own incubator on March 10, 252 eggs and tested out on the eighth day forty eggs, leaving nothing in the machine but strongly fertile ones, or eighty-four per cent fertility. Last March I ordered from an advertiser of THE FEATHER from Long Island three settings and he most generously sent me fifty-six eggs; one hen broke all of her eggs but five and I got thirty-three good, strong chicks, or over sixty-four per cent. My own hens are yarded but with plenty of room and large, open scratching-sheds. I have about twenty pullets to one cockerel, and I am not at all certain that with good, healthy stock and room for exercise this number could not be increased if desired. — WALTER A. COLLINS.

Utility Houdans.

Editor The Feather:

I have an experience of ten years with the Houdans and a judge of the same for the past four years and I write you my experience of this breed of fowls as a general-utility bird. They are layers of very large white eggs and lay from 160 to 180 per year according to conditions and feed. As a table fowl there is no bird in America to-day that surpasses them, their meat being placed well forward, having the largest breast of any fowl we know of, taking size into consideration, and those who have experimented in dressing birds for market claim there is the least waste.

They are great rangers on the farm when given full liberty, and I know where they have been tried four years on the farm here, they have taken as good care of themselves as the Rocks or Wyandottes, being healthy, vigorous, and good-laying birds. This has especially been so with the half-breeds.

If I were to breed the Houdans on the farm for utility purposes, I would select birds of small crests with the large, long, rangy backs, small tail, full breast, small comb, and with clean legs. The only drawback with Houdans on the farm would be their crests, and this only in wet weather when it is freezing and thawing. My Houdans have been raised on several farms for the past five years. The birds are brought to me December 1st, and I have always found these birds hearty, well developed, and healthy, and have always been able to select birds from them that could win at the largest shows. These birds are

non-sitters and one is not troubled with sitting hens. My Houdans this year have laid well in the winter, but their best points on laying, I consider, are that they lay in the middle of the summer and late fall when other fowls are sitting or in molt. Consequently eggs bring a good price.

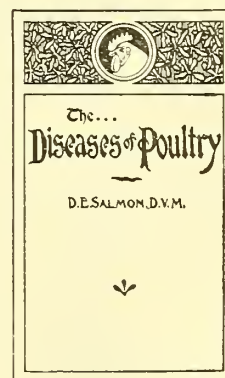
I have known fanciers to be successful with this bird in most every State in the Union, also in cold Manitoba and Ontario, they do especially well in a dry climate and can stand any amount of dry, cold weather. House this bird properly, with good care, protecting them from their tender points, such as damp crests and lice, and I consider them the best bird in America. A cockerel placed with mongrel hens will give the farmer a splendid lot of birds to market in the fall, and his pullets will make splendid layers the following year, yet I do not advise one to raise half-blood stock or mongrel stock. Their eggs hatch well, and at this time of the year it is a cheap way for farmers to get started in full-blooded stock. The Houdans are small eaters, fleshing up easily. If you wish your birds to lay well, they should be kept busy by working for their food or scratching for their grain in about four inches of litter. After they are one year old females should be fed very little corn, as their tendency is to get too fat when fed too much corn.

From a fancier's stand-point I consider the Houdan an ideal bird combin-

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ing utility with the beauty breed. There is no more beautiful fowl raised, from a fancier's stand-point, especially when they are standard-bred, their coloring being pure white and pure black, crests of moderate size, globular in shape and even black and white throughout. This breed in regard to crest is very hard to breed perfect, especially in the per cent of a flock. Other points are equally hard to breed for so old a bird, and the fancier will have hard work for many years to come to perfect this bird to present standard requirements. These birds breed very true and they get a large per cent of fine birds in a flock where good care is taken in raising them. Their popularity is on the increase, and the fancier who has been in the business for a number of years with a good show record, and keeps his name before the public, if he be honest, will receive his reward by many good sales. —FRANK W. MCKENZIE.

A Successful Turkey-Raiser.

Editor The Feather:

I am a breeder of the Bronze Turkey, and will take just a few lines in your paper on the diseases of fowls, and at the same time will say that I have advertised in your paper and know the good results that I have obtained from doing so. I take this way to reach any and all who are interested in good and fancy fowls. Have advertised quite a little in your paper and others, and must say that your paper has been the means of my making a great success with fowls, and especially the Mammoth Bronze Turkey, as this is my great breeding success. I keep only the best and have many letters of recommendation of my turkeys, and I pride myself on having the best flock of turkey in the State and as good blood as there is in the country. I shall speak mostly of the diseases of turkeys, as they are a favorite of mine and I have studied their nature.

The diseases of any and all fowls are brought on mostly by the feeding. Now fowls should be fed as regularly as clock-work, as irregular meals and over-feeding make disease. It is so hard to tell what to give your chicks when they keep dying off and you can not understand what does ail them, for it is a great deal easier to keep them strong and healthy than it is to get them so after they are once sick.

I have had large flocks of young turkeys from three to four weeks old that seemed lively when they went away in the morning and at night some of them would be missing and others would be drooping their wings, and you can make up your mind when they commence to droop they will not live long unless there is something done for them. Young turkeys will get chilled easily, and that is about what ails them, unless they have lice and are kept in a filthy place; if so, there is not much use trying to raise them, as they must have a clean house and be kept free from lice, but if you use too much lice-powder it is almost as injurious to the poults as the lice.

When you look at your young turkeys or chicks they look so good and healthy, and then when they commence to die off you come to the conclusion that just so many have to die anyway; but this is not so, for if you look well to your flock and see if they have the proper food and that they are free from lice there will not be very much trouble to raise any chickens or young turkeys.

Now there is money in raising turkeys for market, but there is not very much in it after you have had lots of trouble with them to have them all die off. There is more money in raising good stock for market than there is in raising old scrubs, as good stock will raise easier than poor stock for they are so much healthier and will not take disease as quickly as stock that is inbred. So be careful of the kind of stock you select, and see that you get good blood and not stock that every one may tell you is the best. It is better to pay a good price and get good stock than it is to pay a little and get some stock that has been inbred. I have seen birds advertised for \$1.50 and \$1.75 each, that is turkeys, but I would not raise turkeys if I could not sell them in the market for \$2 and \$2.50 each. When birds are down as low as that they can not be of any size, otherwise they would not be advertised for that money.

A tom that is twelve months old and weighs thirty to thirty-five pounds is better worth \$40 than one that is six months old and only weighs twenty to twenty-five pounds, and the same is true of hens. You can not be too careful in selecting your breeding stock, for good, healthy birds make good, healthy chicks.

I have not told you what to give your fowls for the different diseases as I thought it better to tell you how to steer clear of disease, which can be done if you look to them carefully. I am a breeder of the turkey and if any one wishes to write me in regard to their breeding, raising, or care, I will be glad to answer their letters.

I thank the Editor for the space in his paper and would say try THE FEATHER as an advertising medium.—W.N. HOUSE.

Grit.

The feeding of grit or crushed oyster-shells during the laying season is to be recommended, as a certain amount of lime is necessary for the formation of the shell. Fine gravel containing limestone makes a good grit, and old crockery or glass broken into particles no larger than a grain of corn nor smaller than a grain of wheat will be found excellent.

Questions and Answers

WEIGHTS OF FOWLS—TEMPERATURE.

Q. 1. What should White Plymouth Rock pullets and cockerels weigh at five months old? 2. Is warm mash fed the year around? If not, what is generally substituted in warm weather? 3. At what temperature should brooder-house be kept in winter? 4. At what age are capons generally marketed?—A. M. F., Germantown, Phila., Pa.

A. 1. Full standard weights for Plymouth Rock cockerels and pullets are eight and six and a-half pounds. What they will weigh at age mentioned depends upon how well they have been fed. Have seen them full grown at six months old. 2. Warm mash is all right for cold weather, but let it cool before you feed it in warm weather. Nothing is better than mash food properly fed. 3. A brooder-house should be about sixty degrees temperature; the hoyer for the chicks from seventy to ninety degrees according to their age. 4. Capons are usually kept from nine months to a year. The best time to sell them is when they are ready for the market. It will not pay to keep any poultry that is for market beyond the time it is all ready to kill.

WEIGHT OF WYANDOTTES.

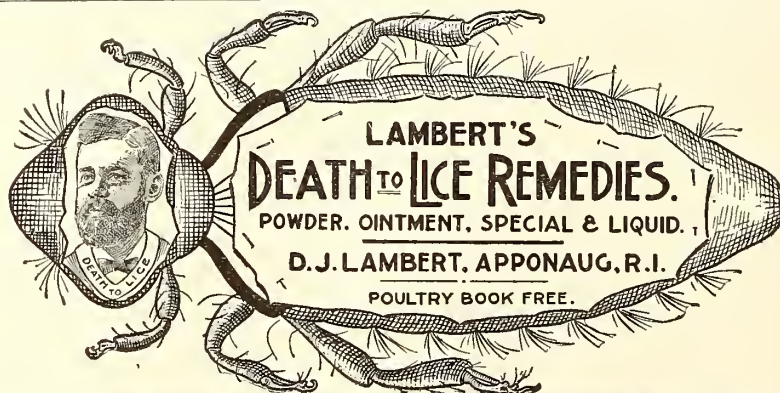
Q. Will you kindly give the standard weight of White Wyandottes in THE FEATHER?—E. F., Fair Ground, N. Y.

A. White Wyandotte cock-birds should weigh eight and one-half pounds; hens, six and one-half pounds; cockerels, seven and one-half pounds; pullets, five and one-half pounds.

GREEN BONE OR ANIMAL MEAL?

Q. Which is the best to feed to hens for egg-production, animal meal or green bone? I have been told that animal meal is best. Can you tell me?—A. S. B., Littleville, Mass.

A. Green bone is the best; at the same time good animal meal is good for them. So much of the meal is not pure meat. You better buy the best meat scraps to be had. It is fully as good as the green bone.



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TO BREAK UP A HEN.

Q. I was somewhat disappointed not to find a continuance in February number of THE FEATHER of "Game Fowls" article as announced in January number. Would you kindly publish the best way to break a hen from sitting?—E. T. B., Roanoke, Va.

A. The Game article is complete in March issue. The best and most humane way to break a hen from sitting is to move her to an open yard or runway and shut her up. Some shut them in a box, but it is best to put them into a small yard on the ground.

NEEDS "MONEY IN SQUABS."

Q. What is the most profitable breed of pigeons for market use as squabs? What color is preferable? Is there more money in them than there is in poultry? What does a pair of pigeons cost for feed a year, and what do they pay for same time?—A. J. K., Galveston, Tex.

A. Large white pigeons of any kind are the best, but any kind of common pigeons will do for squabs. If you will send fifty cents to this office you can buy a book that will tell you all about squab raising; this book may save you a lot of money. It is called "Money in Squabs."

AGE OF BREEDERS, ETC.

Q. 1. Please tell me how long a male bird is kept for breeding. 2. At what temperature should eggs be kept for setting without injuring them? 3. Will it hurt to number eggs with a pencil? 4. Can bone be fed to chickens at all times without harming them?—R. F., Philadelphia, Pa.

A. 1. Some male birds do well as breeders at three or even four years old, but usually they are not the best after the second year. 2. Between forty and fifty degrees is the best temperature for eggs that are for incubation. 3. No harm can be done eggs by numbering them with a pencil. 4. Bone is good for chickens at all times; it will not injure them.

WARM ENOUGH.

Q. Will you kindly answer the following questions? 1. At what temperature should a poultry-house be kept to insure a good supply of eggs through the winter? 2. Do you think my house will be warm enough? It is made of one-inch boards and felt covering—"Swan's Extra Heavy Felt"—on the outside of it. It is between two large barns and on the north side is a large house.—J. D. K., Evansville, Ind.

A. Your house is plenty warm enough. It is proper feeding that makes the hens lay, not warm houses. If you will make them scratch in the straw for their food and give them some meat every day in their food they will lay all right.

GOOD TABLE POULTRY.

Q. Would you kindly inform me through the columns of your valuable little paper, what, in your opinion and from reports of others, is the Cornish Indian Game as an egg-producer in

comparison with the S. C. Brown Leghorns? Also name a few reliable breeders of Cornish Indian Games. I have been breeding S. C. Brown Leghorns for about six years and have obtained excellent results, but should like to try a little heavier fowl.—H. J. S., Bethlehem, Pa.

A. The Cornish Indian Game is not as good an egg-producer as other fowls. They are more for table poultry. Brown Leghorns are better egg-producers but not so good for table poultry. You better keep your Leghorns for eggs and get the Indian Games for table poultry. Keep some of both.

FEEDING GREEN BONE.

Q. Please give the following in the Questions and Answers column: 1. How to feed green bone. 2. When to feed green bone. 3. How much to feed. 4. Please give address of *Farm and Road Journal*, published somewhere in Texas.—C. E. B., New Orleans, La.

A. Green bone should be cut fine in a bone mill and fed to the fowls about one-half ounce per day. Some mix it with their mash; others feed it in troughs; others, on the ground. Any way will do just so each fowl gets its full share. *Farm and Ranch* is published at Dallas, Texas. Do not know of the journal you mention.

WHY CHICKS DIE IN SHELL.

Q. Kindly let me know through your paper the answers to the following questions: 1. Chicks in incubator seem to have a very hard time getting out of the shell; in fact, many are unable to get out and die in the shell. The membrane inside the shell is tough, while the shell itself is very dry, but the interior of the eggs where the chick is seems wet enough. Can you tell me what is the matter? 2. Should a R. C. Black Minorca cockerel have any purple in his ear lobes? 3. At what weight are Partridge Cochins Bantams disqualified.—A. H., Stamford, Conn.

A. 1. Too much heat, too little moisture, bad ventilation; either or all might cause this trouble. Should judge that you had not become an expert yet in handling your machine. Study the directions well and follow them. 2. There is no standard yet for Rose Comb Black Minorcas; at the same time, the ear-lobe of all Minorcas should be white. 3. Partridge Cochins Bantams are disqualified by weight as follows: Cock, 34 oz.; hen, 30 oz.; cockerel, 30 oz.; pullet, 28 oz.

MORE PARTICULARS NEEDED.

Q. I have about one hundred White Plymouth Rock hens that I keep for family use, and being somewhat of a novice wish to obtain information through your valuable paper to this end. I am forced to keep my fowls confined to a great extent, but occasionally turn them into my pea field, but immediately after doing so notice an affection of their bowels. The same become very loose, passing at frequent intervals a thin, watery substance, finally, in the course of a few days, resulting in an enlargement of the rectum with the main intestine protruding, when the

death of the fowls immediately follows. Will you kindly designate cause and remedy?—G. P. F., Hastings, Fla.

A. Too many green peas might make bowel trouble, but the symptoms would indicate that the fowls had eaten ergot or some wild plant or seed that would have the same result. Must have more particulars or can not tell what is the real trouble.

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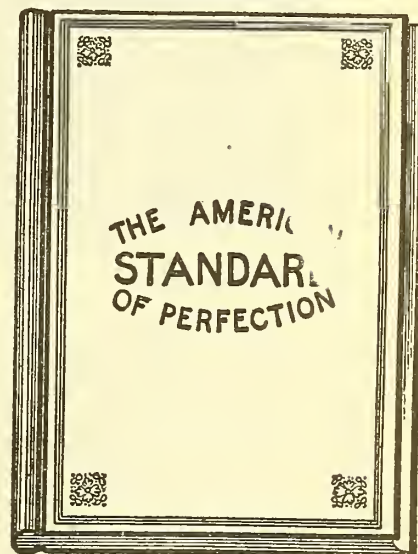
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Every poultryman must have a copy of the American Standard of Perfection, to breed his fowls successfully. It is the Official Book of the American Poultry Association for Raising Poultry to a Standard of Perfection, with Instructions to Judges, General Disqualifications, Cutting for Defects, Detailed Description of all Breeds of Poultry, Turkeys, Ducks, and Geese, and a Glossary of Technical Terms. We will give this book and a year's subscription to THE FEATHER, for only \$1 the price of the book alone. This is a most liberal offer.

GEO. E. HOWARD & CO.,

305 10th St. N. W.,

Washington, D. C.

Fishers Island Farm.

Written for The Feather.

As a proper introduction to this article we would say that in nine cases out of every ten descriptions of poultry farms as published in the various poultry periodicals throughout the United States are over-drawn, very much over-colored indeed, and the fact that the impression the uninitiated gets by reading such descriptions is so much different from that he gets by visiting the same plants has done much injury to the poultry business, especially in the market line. But it is not our purpose here to take the various editors of our poultry press to task for allowing the truth to be varnished on necessary occasions, but rather to write a few words in description of an old, well-known, and strongly established poultry farm—one that is well known to every poultryman of any prominence throughout the United States, Canada, and to a greater or less extent all over the world.

In describing a poultry farm about

is devoted to the accommodation of the small chicks and ducks as they are taken from the incubators and is fitted with twelve latest style improved Peep O'Day brooders, together with a number of hot-water (pipe system) brooders. The floor is first filled to a depth of about two feet with pebbles and then concreted on top. This is covered to a depth of about one and a-half inches with clean, sharp bank sand, thus making an excellent floor for the young chicks to run about on and scratch in. The fences separating these pens are three feet high, being of just the right height to keep the young chicks from getting over and allowing the person caring for them to step over from one pen to another. The building is well ventilated by several Star ventilators, which are considered to be about the best in the market. In this half of the house is also located the large Hitchings hot-water furnace, which furnishes all the heat required to heat the building during the coldest weather.

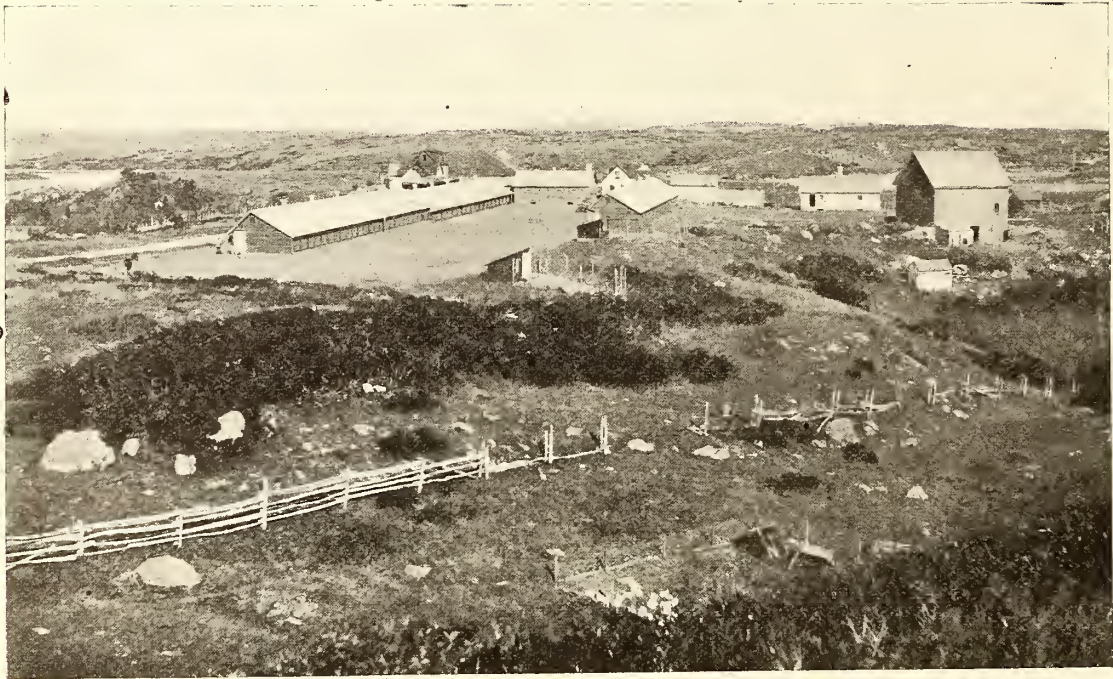
The upper half of the brooder-house

ber of practical poultrymen, editors, etc., there are very few but who have expressed themselves as being perfectly satisfied with both the interior and exterior arrangements of this house.

Outside on the south side of the building there are runs about fifty feet long for each pen on the inside. In warm weather the chickens are allowed to run outside. These runs are seeded down and are now sodded over very nicely.

The incubator-cellar, which is one of the best in the country, is walled up with stone and has a concreted floor, which makes a very clean and dry place for the incubators. Of incubators there are eleven Cyphers and two Prairie States, all of which at present are in full blast. This room also contains a very convenient egg-cabinet arranged with trays for the reception of eggs from the different pens of pedigreed birds. No moisture is used in any of these machines and the hatches are fully as good, if not better than those where it is used.

Above this incubator-cellar there is a



GENERAL VIEW OF BREEDING-HOUSES, FISHERS ISLAND FARM, FISHERS ISLAND, N. Y.

which so much has been written and published, it is a very difficult matter to separate the chaff from the wheat and bring out any new points. But probably the first point that the practical poultryman would take into consideration would be the construction of the plant, the arrangement of the different buildings as related to the proper housing and convenience in caring for the stock, the size of the buildings, grounds, etc., the methods of caring for the different birds, and other things, all of which should be taken into consideration by any one proposing to build and operate a plant of any size.

Following out the ideas above mentioned, we will begin first with the brooder-house. This building, which, together with the incubator-room, makes the most vital wheel in the machinery of a well-constructed and operated poultry plant, is 300 feet in length by 20 feet in width and is divided into two parts, the lower half of which

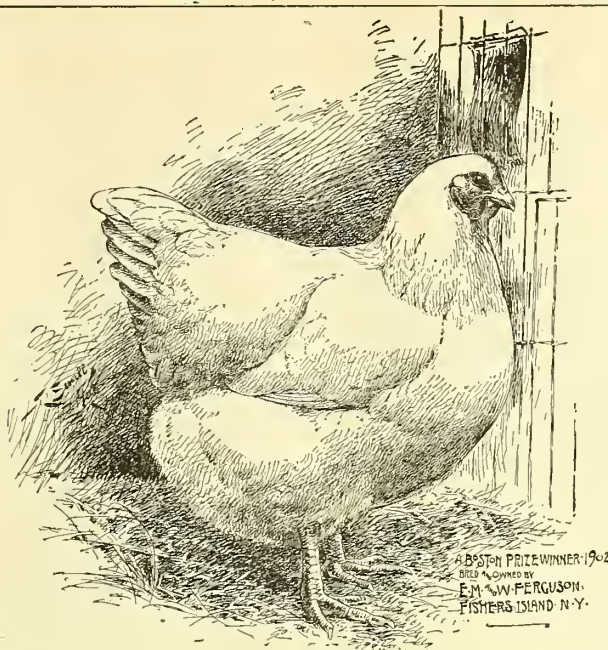
is divided into pens with high wire partitions between, and is arranged for the care of larger and older chickens. In front of each of these pens for about half of this half are hot-water pipe brooders built for the accommodation of large chickens. Every pen is connected at each corner with the other by a small door, which is used to drive the chickens through when changing from one pen to another, thus allowing the operator to change one or two thousand chickens in an hour or two with ease and without frightening and running them to death, which is usually the case when each bird has to be caught and taken around outside through the main door to the next pen.

The entire building is covered on the outside, first with building-paper, then sheathed over and clapboarded. On the inside it is first covered with a good quality building-paper and ceiled up, thus making it an almost frost-proof building. Out of the very large num-

ber of practical poultrymen, editors, etc., there are very few but who have expressed themselves as being perfectly satisfied with both the interior and exterior arrangements of this house. Outside on the south side of the building there are runs about fifty feet long for each pen on the inside. In warm weather the chickens are allowed to run outside. These runs are seeded down and are now sodded over very nicely. The incubator-cellar, which is one of the best in the country, is walled up with stone and has a concreted floor, which makes a very clean and dry place for the incubators. Of incubators there are eleven Cyphers and two Prairie States, all of which at present are in full blast. This room also contains a very convenient egg-cabinet arranged with trays for the reception of eggs from the different pens of pedigreed birds. No moisture is used in any of these machines and the hatches are fully as good, if not better than those where it is used. Above this incubator-cellar there is a large and commodious room filled with exhibition-coops, pens, and material for packing eggs and fowls. Here all of the show birds are housed three or four weeks before the shows for special feeding, handling, etc. Directly connected at one end with this room is an office where all the correspondence is transacted and where records are kept of all the hatches, matings, etc. Everything here is done in a strictly business-like manner, and the customers of this farm feel assured that their orders and inquiries will be well taken care of and everybody treated fairly and squarely. Besides all the buildings mentioned and described there are a large number of colony-houses, movable houses, coops, etc., which are constantly in use during the busy season.

The varieties bred here are Barred and White Plymouth Rocks, Cornish

Valley Farm, Simsbury, Conn., sends an artistic catalogue free.



A BOSTON PRIZE-WINNER, 1902. Owned by Fishers Island Farm.

Indian Games, Imperial Pekin Ducks, and Mammoth Bronze Turkeys, all of which are thoroughbred and strictly up to standard requirements. Those which do not fill the bill are culled and sold for market.

Their record in Barred and White Plymouth Rocks is unequalled, they having won hundreds of prizes in the hottest exhibitions in this country, prominent among which are New York, Boston, Toronto, Pittsburg, and Hagerstown. The foreign trade of this plant is reaching large proportions and shipments made thus far have given universal satisfaction. Their famous White Plymouth Rock male, White Cloud, is still alive and being bred to a few hens. A number of his sons and daughters are in the different pens and his progeny is in the hands of a large array of prominent breeders throughout the country.

The Barred Plymouth Rocks bred

here are of that bright blue barring which is so much sought after. The barring is deep and well defined, shape all that could be desired, size up to the standard, and birds in every way that will please the most critical fancier.

The White Plymouth Rocks are of a pure snow-white color, splendid shape, good combs, good legs, and every quality desirable, and their winnings at New York are especially large, as for two years in succession they scooped all of the leading prizes.

The Cornish Indian Games are not bred in anything like the number of Plymouth Rocks, but what they lack in number they make up in quality, for the Indians raised on this farm are well and favorably known all over the country, having won a large percentage of the best prizes when shown against some of the best birds that could be raised here and those brought over from

England. Their shape is superb, color all that could be desired, and lacing splendid. Their trade in these birds is very large and they have all they can do to fill the numerous orders received.

Their strain of Pekin Ducks is one of the very best. These birds are large, of fine shape, pure white color, good layers, and make splendid market ducks as well as fancy, and are in every way such as a duck breeder is striving to obtain. Their trade in Pekins is not so large as that in the other varieties of fowls, as most of the ducks raised here are intended for the market and the demand for them is very great.

The strain of Bronze Turkeys bred here still stands at the head of its class, as everybody will admit, and the demand for them still exceeds the supply. These birds are large, vigorous, well marked, splendidly colored, and in every way leave nothing to be desired as regards standard requirements. They can not be beaten as a table bird, and their sales as Thanksgiving and Christmas turkeys are away up. They have been sent all over the world as breeders and everywhere that turkeys are raised in any number you are sure to find some of this blood. They are given a range of more than 2,000 acres to roam over and get their food, which makes them healthy, hardy, and fit to be the progenitors of what they are. This year bids fair to be a most successful year for turkey raisers, and no doubt an enormous number of first-class birds will be brought out.

Accompanying this article are a number of cuts, showing the buildings, etc., at this plant, which will give the reader some idea of the extent of same. In conclusion we would cordially invite the readers of the *THE FEATHER* to visit Fishers Island Farm and make an inspection of the plant and stock, when they can verify the statements made above and see for themselves how things are managed on a large poultry plant.

Valley Farm, Simsbury, Ct., ships eggs that will hatch well.



ANOTHER VIEW OF FISHERS ISLAND FARM, FISHERS ISLAND, N. Y.

THE BUSINESS WORLD

As Viewed from the Columns of *The Feather*.

A BARRED ROCK SPECIALIST.

We would call special attention to the ad of Mr. George M. Leffel, Springfield, Ohio. Mr. Leffel is a Barred Rock specialist and breeds pedigreed birds of the finest strains. His yards are located in the city and on his farm of 265 acres about one-half mile from town, the majority of the birds being raised on the farm where they have fine range and spring water.

Mr. Leffel has been victorious at many of the large shows and has furnished many winning birds to customers throughout the United States. Perhaps the highest score given any bird of this variety was given a cockerel bred by him. This bird was "Champion Son," which was scored ninety-five points by I. K. Felch, at a Dayton Show. Mr. Felch pronounced it the best score given by him to a Barred Plymouth Rock cockerel in all his life, and wrote across the score-card in ink, "Every doubt scored against this cockerel." This cockerel weighed eleven pounds, and was of excellent shape and color.

The following is from a letter written by Mr. J. R. Lampson, of Mexico, Mo., and shows in what high regard Mr. Leffel is held by other breeders of his variety:

"On February 9, 1900, I visited Mr. George M. Leffel's poultry plant at Springfield, Ohio. This is the man who claims to breed Barred Plymouth Rocks from a single mating. There are few men who breed them this way, but I desire to state that Mr. Leffel breeds good birds from a single mating. I inspected his yard and saw his birds mated in the breeding-pens, and will say that I have bred Barred Plymouth Rocks for fifteen years and have bred many show birds and sold them, but will have to take off my hat to Mr. Leffel and say that I saw more good birds at his place than I ever saw anywhere else in my life. I have exhibited at lots of good shows, but saw 160 birds at his home-place that were the equal of any show I ever attended; in fact, he had the best exhibition of Barred Plymouth Rocks I ever saw. I never before in my life saw so many good birds together.

"We need more such men as this in the poultry business, and I believe he will treat every man fairly. While in the city I inquired as to his honesty, and everyone approached spoke of him in the highest terms, and I would recommend Mr. Leffel to any man breeding Barred Plymouth Rocks."

A SIMPLE REMEDY.

La Porte Insecticide Co., Plattsburg, N. Y., have issued a circular which tells how, without expensive remedies, to have no sick fowls and how to get eggs the year around. 'Tis simple. It might pay you to get it. See their ad elsewhere in this number and write them.

CONSOLIDATION.

The firm of W. H. Smith & Co., of Blythesdale, Mo., the well-known manufacturers of "Smith's Sealed Leg-Band," have formed a co-partnership with Keyes, Davis & Co., of Battle Creek, Mich. The new company will

be known as "The Keyes-Davis Co., Ltd.," and all the business will be done at Battle Creek. The Company will manufacture and fill orders for a complete line of leg-bands and stock-markers, and all goods heretofore sold by both companies. Mr. W. H. Smith will be actively connected with the new company.

SPECIAL BARGAINS.

The new ad of George H. Northup, Raceville, N. Y., in this issue conveys to our readers offers of special bargains in Mr. Northup's Minorcas and their eggs for the remainder of the season. Mr. Northup writes that he has had remarkably good hatches both from eggs set from his own chicks and from eggs sold, and that he is selling some of his breeding stock at low prices to make room for his growing flocks.

TRANSFER OF STOCK.

Hope, Ind., April 4, 1902.

To whom it may concern:

This is to certify that we have this day sold and shipped to Mr. E. L. Shove, Middletown, N. Y., the prize-winning Black Belgian Buck "Black Douglass," winner of first prize at Great Chicago Show, 1901. He is one of the best, if not the best, black bucks living, and one of the best breeders ever offered the public in the stud.

FISHEL BELGIAN HARE CO.,
U. R. Fishel, Pres.

Personals.

56 Dey Street has been fitted up with new coops, gas, and paint, and good-natured Stanton is all smiles and good-wishes for all. His sales to our new foreign possessions are wonderful. Our American breeds take well all over and specially well in Germany. Three shipments of Homers have come to Stanton's in the last few weeks from over the Pond. Mr. S. is the distributing agent on this side for both shipper and buyer. Sir William is the one to say whether the stock sent is all right or not, if he says "No," so it must be. So far all that have arrived are splendid specimens.

The new Wyandottes seem to have gained some reputation abroad. They are pictured in all the English journals and highly spoken of. Some have been imported from there, but the color of the Partridge variety is quite like the color of the Partridge Cochins over there, entirely too light or bay-colored for us. We are strong for the beautiful mahogany color of the Partridge Cochins as displayed at Boston and New York Shows, and the foot of disapproval should be placed upon these English thin-colored specimens before they gain a foothold and injure our better colors. Good Partridge Cochins color is what we want.

Mr. Boyer has the following in his paper, *A Few Hens*: "Mr. Thomas F. McGrew, who recently made a tour among the poultry-farms of Eastern Massachusetts, says in *Farm-Poultry*: 'The feature of most interest was the living presence of men and their families on small farms of a few acres of rough land, making almost double the amount per year they had formerly made working for \$1.50 a day. If a man labors three hundred days per year for \$1.50 per day, he has made \$450. Some who have quit this life are now making from \$700 to \$900 per year from their hens, besides

producing their own garden-stuff. This is the manner of men we wish to see interested in poultry culture—those who could and would be delighted to improve their condition in this way.' There are thousands all over this broad land of ours who might be benefited in health, wealth, and self-respect, who might improve the condition of their families by taking up poultry farming if they would do it in the right way, as seems to be the purpose of those mentioned above.

Incubator Eggs.

The selling of eggs for hatching to broiler-plants has become a profitable feature of the poultry business. Those who keep well-bred hens properly mated and are faithful in their efforts so to do, can sell all good, fertile eggs that their hens lay to these broiler-plants, providing that they gain the confidence of those who run the plants, by always furnishing them as they agree to do.

The prices at which such eggs are sold ranges from \$5 to \$10 per hundred. Those who gain and hold a reputation for furnishing eggs that will produce a large per cent of good-quality broiler-chicks have no trouble to sell their eggs for \$10 per hundred. To do this it is absolutely necessary to have good stock to produce the eggs, and the eggs must be delivered promptly, in good condition, when needed for hatching, and they must have the vitality to produce a goodly number of strong, vigorous chicks. Eggs that will produce fifty or sixty per cent of good, strong, healthy chicks are worth more than double the amount to the broiler-plant that eggs are which only produce twenty-five or thirty per cent of live chicks.

Herein lies the secret of obtaining the higher prices for the eggs. It is useless to hope that a man will pay, or that he can afford to pay, such prices for incubator eggs that produce such a small per cent of living chicks.

Those who keep poultry often wonder why they can not receive prices the same as others get. What we have set forth above are the actual facts that govern the prices for these kinds of eggs. All can gain the higher prices if they are able to furnish the value. To succeed in broiler raising it is absolutely necessary to have the greatest vitality within the egg, so as to enable the chick to come out strong and vigorous from the shell—able to grow fast and consume the food necessary to make broilers ready for market in ten weeks.

Prize-Winning Quality.

Each season do we find that the quality must be better and better to win the prizes at the shows. Those who do not advance or look forward usually find the more alert have gone ahead in the past twelve months while they line up in the show-pens with about the same quality of the year before. This is true in every kind of business; no matter into what line you extend your investigation you always find some who succeed and many who do not.

Much of this lack of success comes from inattention to what we are attempting to do, some from actual lack of ability to succeed, while others keep putting off that which they understand that they must do to succeed. All three of these are faults that can and should be avoided, because there is no use for neglect when assured of what we know

we should do. One should not select and follow an occupation for which they are not fitted.

The saying that "time and tide wait for no man" is very applicable to the poultry business. If you have a brood of fine young chicks and you neglect them for one single day it takes them a whole week to recover from this neglect. If they have been neglected for five days of their growing existence they have been set back five weeks, a condition from which they will never recover. Five days of careless attention seems but little in the existence of an exhibition fowl, but you can rest assured that if they are neglected for even so few days as five scattered throughout their whole growing existence they are an utter loss for the purpose for which they were intended.

How to Pack Eggs for Market.

It is always the best and most profitable to select the eggs and assort them so as to have eggs all of one kind in the shipping-cases—all white eggs packed by themselves, all brown-shelled eggs packed by themselves. It will also pay for the trouble to select all over-small eggs and the crooked or ill-formed eggs from among the nice, smooth-looking eggs. Pack all the best white eggs in a case by themselves, and all the best brown eggs by themselves, and the remainder can all be put together in one case and marked "Assorted Eggs." By so doing you will always obtain the highest market price for the best kind of white eggs, the same for the best kind of brown eggs, and the assorted eggs will bring their price also in the market. Often eggs are crated as second-class or assorted eggs simply through a mistake in packing the good and indifferent ones together and all are sold at the lower prices. Much of this can be avoided by assorting the eggs as above stated before being shipped, for thereby the shipper gets the higher price that the handler will get if the eggs are sold to him as a mixed, unassorted lot and he repacks them.

There is always a good market for the best grades of dressed poultry and eggs, and when the people gain confidence in the quality of goods sent in by any one shipper, his products will always bring the higher prices. This to a great degree is the cause of some losing money in the keeping of poultry while others always make money.

In shipping live poultry to market many people crowd the good, medium, and bad qualities all into one crate, and when such shipments come into market they are always crated as under-valued goods and never bring the full market prices. By watching all these means of crating one can get a better price for one's stock.

Feeding Young Chicks.

Don't feed young chicks wet, sloppy food and expect them to do well. It is far better to give them a dry ration of small broken oatmeal, wheat, and corn with some well-cooked Johnny cake made out of a mixture of ground corn, oats, bran, and middlings. If this mixture is mixed up with a few eggs from the incubator with some milk and water and well baked and crumbled fine when cold, it will do splendidly for the young chicks, and it will repay the trouble

that must be given its preparation.

Wet, sloppy foods produce indigestion, diarrhea, and death. On the other hand, the chicks will do well on the manner of foods above described. If all persons would give attention to these little demands they would raise a larger per cent of the chicks hatched and thereby add considerable profit to the labor of the year; but so long as people will continue to be careless in their methods of feeding, just so long will the chicks continue to die and bring sorrow and disappointment to those who neglect them.

The Guinea-Fowl.

The Pearl and the White Guinea-Fowls are very common with us. They were so plentiful in America in early days that some have considered them indigenous to this country, but their original home whence they came into the European countries was Western Africa. As early as the close of the fourteenth century large numbers of them came in trading-vessels that brought slaves to this country. These were turned loose upon the plantations of the South and became so plentiful as to establish the theory that they were native to the country.

There are some eight distinct species of the Guinea-fowls known to naturalists, all of which are native to the continent of Africa. This fowl was one of the favorite birds at the feasts of the Romans in early days. They are naturally as wild or more so than the pheasant or the turkey, both of which belong to the same family group. The period of incubation is from twenty-six to twenty-eight days. They never do well in confinement, but produce well in a semi-wild state. Have seen hundreds of them in flocks both in the West and the South where they largely gained their own living, only being partially fed during the winter months. The meat of the Guinea-fowl is a luxury that is enjoyed by many even in our large cities.

The Crested Guinea-fowl is a beautiful little bird that is quite attractive in both general make-up as well as beauty of plumage. The head and neck are naked and of a dull blue color shaded with red. In place of the horn comb like the Pearl Guinea they have a top-plumage of hair-like feathers of a blue-black color. This crest runs from the nostrils back on the head in a narrow strip not like the round crest of the hen but much like the crest of the crested pigeon. The general plumage is of a bluish-black color, marked with grayish spots, from four to six on each feather, quills yellowish-brown, edges of the secondaries pure white. Do not think any of these have been kept in this country; in fact, they are rather scarce and slow of domestication quite like the pheasant.

The Pearl Guinea-fowl, as called, is the most common of all. Their color is dark blue or purple, spotted all over with light spots that resemble pearls, hence the name. Just the reverse to this is one that has the light ground-color and the dark spots. Then we have the White variety that is also seen in India and Madagascar. The crossing of the Pearl and the White gives the pied colors. In addition to these, at times, Blues and Duns are seen. These are the results of cross mating and sports. Some of these are met with at times at our county fairs, where they

are shown as separate varieties. The only two that should be considered as exhibition specimens are the solid White and the Pearl Guineas.

To get a start with Guineas it is best to send away to two different parties who live several hundred miles apart, and get some eggs from each, hatch them under hens and grow the young. In this way you start with two kinds of blood and a better chance for avoiding in-breeding. Too close breeding has done considerable harm to them; the same as with the turkeys. Too much stress can not be laid against this injurious plan, that has been allowed to become so general with our turkeys.

It is always best to have the Guinea-fowls in pairs. We know that one male will pair with several females, but they do better in pairs, and an extra male that has no mate had better be killed for table use, for he is a continual source of trouble all about the farm. One male will get on all right with two or even more females, but an odd male is a genuine nuisance all the time. The females will hide their nests to lay their eggs. It is best not to disturb them much, and above all things do not take all the eggs from the nest at any time unless you wish the hen to quit it for another. You may take part at any time, but if all are gone when she comes to lay she goes and finds another nest.

Regular Feeding.

A perfectly regular system of feeding should be adhered to. Nothing, perhaps, is more beneficial to the condition of the fowl. After careful consideration adopt a system of feeding which best commends itself under the conditions. The fowls will become accustomed to the hours of their meals, and will look for them. This intelligence is natural to all mundane beings, and the more it is encouraged with dumb animals, the easier it will be to control them and keep yourself informed as to their respective conditions. Feeding at irregular intervals begets restlessness among the flocks that must necessarily impair their constitutions and cause deterioration in their value. Between regular hours of feeding they are better contented among themselves, and the more readily follow out their natural inclinations.

Valley Farm wins at the big shows, not at county fairs.

TOO LATE FOR CLASSIFICATION

FOR WANT OF ROOM I will sell at a sacrifice a good breeding-yard of Buff Plymouth Rocks. Order quick. Rare bargain. T. J. LITTLE, Hanover, Pa.

WILLIAMS & METLAR, Barred Plymouth Rocks. We have the laying kind. Hatching eggs, \$1 per 15; for incubator, \$4.50 per 100 "EDGEMORE FARM," New Brunswick, N. J.

NORTH CAROLINA SILVER SEBRIGHT Bantams. My breeding-pen, two pullets, two hens, and a cockerel exhibited at Buffalo by Blunck. Winner of all firsts at Wilmington, N. C., and the highest-scoring bird in show. All in good condition and laying. Price, \$16, if taken at once. W. C. ARMSTRONG, Wilmington, N. C.

FOR SALE.—20 Buff Wyandotte hens, 2 cocks, \$20; 10 Buff Rocks and cock, \$10; 6 Light Brahmas and cock, \$8. E. A. STANDISH, Andover, Conn.

BUFF PLYMOUTH ROCKS. (Nugget strain.) Choice yearlings, hens and cocks, cheap. It will pay you to write us before buying elsewhere. SPRING RUN POULTRY FARM, Washington, N. J.

Shows and Associations.

The West Haven Poultry, Pigeon and Pet Stock Association will hold its first annual exhibition at the Town Hall, West Haven, Conn., December 17-20, 1902. E. J. Crawford is secretary.

The Walla Walla, Washington, Poultry and Pet Stock Association will hold its fourth annual exhibition in that city, December 16-20, 1902. For premium list apply to the secretary, Julius A. Levy.

At the annual meeting of the Waterfowl Club of America, the following officers were elected for the ensuing year: President, N. G. Temple, Pocopson, Pa.; vice-president, Aug. D. Arnold, Dillsburg, Pa.; secretary, Theo. F. Jager, Pinegrove, Pa.; treasurer, Dr. E. H. Witmer, Neffsville, Pa. Executive Committee: Prof. C. Watson, State College; Chas. T. Cornman, Carlisle, Pa.; J. Emlen Smith, Chestnut Hill, Philadelphia, Pa.; W. H. Kendig, Newsville, Pa.; J. E. Redcay, Reading, Pa.

The breeders and fanciers held a meeting in the Coliseum Building, Chicago, Ill., January 24, 1902, and organized the National Toulouse Goose Club for the purpose of promoting the breeding of the goose, and urging the adoption of the true type in size, shape, and color, by breeders, exhibitors, and judges. The officers are as follows: H. S. Price, Waukegan, Ill., president; J. H. Lewis, Cameron, W. Va., vice-president; Mrs. B. F. Hislop, Milford, Ill., secretary and treasurer. This club is not being organized for a few fanciers of a certain section, but to further the interests of every breeder in America, and all breeders and fanciers are earnestly solicited to join in this work and help push the Toulouse Goose to the front ranks, as its merits will warrant.

At the annual meeting of the American Buff Wyandotte Club, held in Chicago, January 23, 1902, the election of officers for the ensuing year resulted in the following: President, L. C. Piser, Shushan, N. Y.; vice-president, Henry Hess, Winona, Minn.; secretary and treasurer, W. K. Wooden, Battle Creek, Mich. Executive Committee: L. C. Piser, Henry Hess, W. R. Wooden, M. F. Norris, and E. S. Tarbox. Honorary vice-presidents: W. C. Ellison, Georgetown, Ohio; A. P. Groves, Chestnut Hill, Philadelphia, Penn.; C. S. Mattison, South Shaftsbury, Vt.; D. C. Harrold, Elwood, Ind.; B. H. Smith, Coldwater, Mich.; Andrew Riddell, Cosayuna, N. Y.; J. J. Williamson, Cleburne, Tex.; Mrs. J. M. Denison, Elgin, Ill.; S. L. Shotwell, Econdido, Cal.; Frank Dutcher, Hopedale, Mass.; M. F. Yegge, Dewitt, Ia.; Mrs. E. W. Orr, Clay Center, Neb.

St. Louis Show.

Readers of THE FEATHER will be interested in the announcement that the St. Louis Fanciers' Association is to give its eighth exhibition of poultry, pigeons, and pet stock in that city beginning December 29, 1902, and continuing until and including January 3, 1903.

These exhibitions in the past have brought together the very best of breeders in the country, and there is every reason to look forward to the coming one as a supreme effort on the part of

the management to eclipse their splendid record. The eyes of the entire world are turned to the World's Fair City, and happenings there in the poultry way, as in all other lines of legitimate pursuits, will attract widespread attention. To take part in such an exhibition will redound to the credit and standing of its participants; to achieve success there will mean fame and fortune as well. This timely announcement will enable all lovers of the feathered tribe to amply perfect arrangements to be present with their birds.

The annual meeting of the association was held in St. Louis on March 7 last, the result of the election of officers being as follows: Henry Steinmesch, president; R. C. H. Hallock, treasurer; John A. Francisco, secretary; Sharpe Butterfield, poultry judge.

A Testimonial.

To The Feather:

Upon the retirement of Mr. Williams from the presidency of the National Bantam Association, the members voted to present him with a testimonial. This work has been successfully engrossed by Messrs. Ames & Rollinson, of New York, bound in ox-blood leather, and lined with watered satin. The text is done in water-colors, in an illuminated style, the whole work being an attempt to honor this gentleman fancier.

The testimonial reads as follows:

"The members of the National Bantam Association at the ninth annual meeting held in Madison Square Garden, in connection with the thirteenth annual exhibition of the New York Poultry and Pigeon Association, passed a resolution authorizing that a suitable testimonial be drafted and presented to President Williams in recognition of his valuable services during the past seven years.

"Philander Williams: It is with the greatest satisfaction that we congratulate you upon the successful administration of the office of president of this body of bantam fanciers. It was because of your urgent request that we reluctantly accepted your resignation.

"To you the National Bantam Association is indebted for much of the success, prosperity, and influence which have attended bantam interests since the inception of the organization in 1893. By your earnest personal devotion and sterling reputation among poultry fanciers, you have brought together, in harmonious accord, one of the strongest specialty clubs in America. That you may continue to advise and inspire us is the hearty desire of the members of the National Bantam Association."

(Signed) CHARLES T. CORNMAN,
President.

A. A. PARKER Treasurer.

E. LATHAM, Secretary.

Molting.

The process of molting is a severe drain on the vital powers of fowls, and the best of care should be taken to keep them in good condition. Provide pure, fresh water, and an abundance of nutritious food. Keep the quarters warm, dry, and scrupulously clean. It is often well to give a tonic at this time, and nothing is better than a few drops of Douglas' mixture or iron in the drinking-water. This trying period may be shortened by careful attention.

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N. Tonawanda, N. Y., March 15, 1902. One package of RABICURE saved me a \$25 doe—F. J. Babcock.

Hoopeston, Ill., July 25, 1902. With one package I cured a severe cold in twenty rabbits, and slobbers in seven—N. E. Weaver.

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List of Color Pictures.

1. Light Brahmas, 2. Trio White Wyandottes, 3. Pair White Wyandottes, 4. White Wyandotte Male, 5. White Wyandotte Female, 6. Buff Wyandotte Male, 7. Buff Wyandotte Female, 8. Silver Laced Wyandotte Male, 9. Silver Laced Wyandotte Female, 10. Golden Laced Wyandotte Male, 11. Golden Laced Wyandotte Female, 12. Partridge Wyandotte Male, 13. Partridge Wyandotte Female, 14. Barred Plymouth Rock Male, 15. Barred Plymouth Rock Female, 16. Buff Plymouth Rock Male, 17. Buff Plymouth Rock Female, 18. White Plymouth Rock Male, 19. White Plymouth Rock Female, 20. Black Minorca Male, 21. Black Minorca Female, 22. Black Langshan Male.

Half-tone Pictures.

23. Barred Plymouth Rock Male, 24. Pair Black Langshans, 25. Pair Buff Leghorns, 26. S. C. Brown Leghorn Male, 27. Pair Silver Spangled Hamburgs, 28. Pair White Crested Black Polish, 29. Pair Barred Plymouth Rocks, 30. Buff Cochins Female.

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EXHIBITION BARRED ROCKS. Stock direct from Thompson, Miles, and Gardner. Eggs from my prize-winners, \$2 per 13. E. B. LEEK, Amagansett, L. I., N. Y.

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WHITE PLYMOUTH ROCKS, \$3 to \$5 per trio; \$5 to \$10 per pen. Sold on approval. Eggs from choice pens, \$2 per 15; \$3 per 30. C. M. BARTLETT, Agnewville, Va.

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EXCELLENT BIRDS come from my Black Minorca and Buff Plymouth Rock eggs. Yards mated from finest strains in America. Hatch guaranteed. Cheap. REV. J. A. LONG, York, Pa.

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SPECIAL BARGAIN.—One Black Minorca breeding cock, and ten young hens. All for \$15. Dirt cheap. Sell in whole or part. Good size. REV. J. A. LONG, York, Pa.

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EGGS THAT HATCH from birds that win. I won more first prizes on Sebrights, Pan-American, than all my competitors combined. Choice cockerels cheap. CLYDE PROPER, Schoharie, N. Y.

BEAUTIFUL Buff Cochins Bantams at three dollars per pair. Eggs from same, two dollars per thirteen. WM. M. CONNOR, Weston, N. J.

WHITE COCHIN BANTAMS, 3 trios at \$4 each; 2 prize cocks cheap to close. Eggs, \$1.50 per setting. F. A. WHEELER, Slatersville, R. I.

BUFF COCHIN BANTAMS that are a clean buff. Good Cochins shape, small in size. Eggs, \$1 per setting. J. B. HOFFMAN, Sanatoga, Penn'a.

RHODE ISLAND RED BANTAMS, ROSE Comb, of my own origin. Have bred them six years. Little beauties. Eggs, \$5 per 12. Mottled Javas, Black Javas, Silver Duckwing Leghorns. Eggs, \$3 per 15. JONES, "The Java Man," Suffield, Conn.

EXHIBITION BLACK BREASTED RED Game Bantams bred down to date for shape and color. Eggs in season, \$2 per 13. L. F. DIDDIE, Chesterton, Indiana.

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CHAS. T. CORNMAN, Carlisle, Pa., breeds all varieties of Game and Ornamental Bantams and Exhibition Games to the highest possible standard. If you don't believe it, look up the awards at the great shows. Stock and eggs. Card for the asking.

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EGGS.—Exhibition B. B. Reds', also a few good birds for sale, B. B. Reds and Pits. Prices are right. F. G. BOUQUET, Owego, N. Y.

INDIAN GAMES

WHITE I. GAME EGGS for hatching, \$1.50 per 15; \$2 per 26. My birds took all first, second, and third prizes at Hagerstown Show. Stock for sale. Stamp for reply. H. B. SWARNER, Plainfield, Pa.

WHITE INDIAN GAMES; choicest of table fowls; rock-bottom prices. Business changes induce us to sell our entire stock, including all our famous New York, Philadelphia, and Hagerstown prize-winners. Single birds, pairs, trios, pens, etc. Unequaled opportunity. Send stamp for particulars. EGG HARBOR FARM, Tuckerton, N. J.

RHODE ISLAND REDS

PRIZE-WINNING Rose and Single Comb Reds. Winners at New York, Athol, Mass., Torrington, Hartford, Danbury, Wallingford, Stamford. Eggs reduced to \$1 per 15. HARRY BARTHOLOMEW, Wallingford, Conn.

THREE HUNDRED breeding birds for sale from \$2 to \$10 each; R. I. Reds, Houdans, Lt. Brahmans, Buff P. and Golden S. Bantams. Some good bargains for early buyers. We want more room for our young stock. Also some fine Belgian Hares and Homing Pigeons for sale cheap. Send for circular and prices. DANIEL P. SHOVE, Box 666, Fall River, Mass.

ROSE COMB RHODE ISLAND REDS exclusively. Eggs, \$1.50 per setting; 2 settings, \$2.50. Send for circular. LOUIS ANDERSON, Bloomsbury, N. J.

ROSE COMB RHODE ISLAND REDS. Eggs for setting from the best stock, \$1 per 13. EDWARD GROGAN, 395 South Main St., Providence, R. I.

WE HAVE WON more prizes than any fancier in the country the past year at all the leading shows. Send for circular to prove same. RED POULTRY YARDS, Shay Bros., Fall River, Mass.

RHODE ISLAND REDS. Farm raised, free range, and selected from good laying strain. Eggs, \$1 per 13; \$2 per 30; \$5 per 100. JEREMIAH MILLER, Stony Brook, Pa.

RHODE ISLAND REDS. 59 regular and special prizes this season at Boston, South Framingham, New Bedford, New York, and Philadelphia. Send for circular. STAFFORD BROS., Fall River, Mass.

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S. F. GULIFORD, Akron, Ohio, 30 years a fancier of Polish. My specialties, White Crested Black, Bearded Silver, Bearded Golden, Bearded Buff Laced, and Bearded White. I breed these beautiful fowls to the highest standard of perfection. If interested in Polish write me.

R. E. SMITH, Afton, N. Y., Member Polish Club. Breeds W. C. B. Polish. None better. Eggs, \$2 per 15; \$3 per 30. Circular and prize-record free. Write for one.

LANGSHANS

BLACK LANGSHANS and White Plymouth Rocks. Only record laying breeders. Hardy stock that will be sure to please, for sale. Eggs, \$1.50 for 15. FRANK I. AHERN, Box 51 Laurel, Md.

WHITE LANGSHANS; greatest winter layers; bargain-counter prices. Business changes necessitate closing out our entire stock, including all our famous New York and Philadelphia prize-winners. Single birds, pairs, trios, pens, etc. Unparalleled chance. Send stamp for particulars. EGG HARBOR FARM, Tuckerton, N. J.

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SPANGLER BROS.' Buff Cochins won 1st cock, 1st pen, 1st and 3rd pullets, 2nd hen at Hagerstown. Write your wants. SPY POULTRY YARDS, Hanover, Pa.

BUFF COCHIN EGGS. Oakland Farm stock. Big, broad, heavy-feathered fellows. Eggs, two dollars per thirteen. WM. M. CONNOR, Weston, N. J.

BUFF COCHINS, C. I. Games. Standard size, good shape, well marked. 15 eggs, \$1; 30, \$1.75; 100, \$5. GOLDEN ROD POULTRY YARDS, Box 108, Souderton, Pa.

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GERY'S BUFF ORPINGTONS. Bred from best English bloods. All pens headed by N. Y. winners. Pullets and hens \$1 up. Cockers and cock, \$2 up. Eggs, \$2.50 per setting. Satisfaction guaranteed. W. A. GERY, Sinking Spring, Berks Co., Pa.

BUFF ORPINGTONS.—Stock and eggs for sale. Many prize ribbons and New York association diploma. P. KYLE, Kyle Institute, Flushing, L. I.

\$2 BUYS 15 EGGS from my great, big, imported Buff Orpingtons, Cook's strain. Customers report strong fertility and satisfactory hatches. H. A. DEMAND, Oxford, O.

BUFF ORPINGTONS and White Wyandottes from best strains. Eggs from extra-fine pens, \$2 per 15. Good hatch guaranteed. SIDNEY MILLER, Rye, N. Y.

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PURE AND CAREFULLY BRED. Philander Williams' Light and Dark Brahma and Buff Cochins eggs. Stock all gilt edged. Fresh and safely packed eggs, \$1 per 13. S. J. MYERS, Lock Box 34, Catawissa, Pa.

NETTLETON'S LT. BRAHMAS, 1868-1902. Winners at Hagerstown, Philadelphia, New York, Pittsburg, and other exhibitions. A few choice birds to spare. Eggs, \$2 per 13. C. P. NETTLETON, Shelton, Conn.

LIGHT BRAHMAS EXCLUSIVELY. Auto-crat strain. At Western Maryland Poultry Show won 1st, 2d, 3d hens, 2d cock. Eggs, \$2 per 13. F. W. DAVIS, Keyser, W. Va.

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MOTTLED JAVAS, Black Javas, Silver Duckwing Leghorns, Rose Comb Rhode Island Red Bantams. Eggs, \$3 per 15. Bantams' eggs, \$5 per 12. JONES "The Java Man," Sumfield, Conn.

PHEASANTS

RING-NECK MONGOLIAN PHEASANTS. Eggs, \$2 per 15. Satisfaction guaranteed. Can hatch under chicken-hens. MARTIN DIETRICH, Box 493, Fulton, N. Y.

PHEASANT EGGS FOR HATCHING.—After April 15 I will have settings of Mongolian Ring-Necks. Full directions. 15 eggs, \$3. A. W. PERRIOR, Syracuse, N. Y.

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P O. STAMPFLE, Barbenton, Ohio, breeder of fancy fowls. Sultan, Japanese Silkies, Rose Comb Black Bantams and Rose Comb Brown Leghorns. Eggs and stock for sale.

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HOU DANS. Winners at Pan-American, Cleveland, Detroit, Dayton, Chicago, etc. Eggs, \$1 per 13. Also fine, healthy Belgian Hares, pedigreed, four red feet, 50c, and \$1 each, while they last. S. D. LANCE, Troy, Ohio.

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BELGIAN HARES in all their purity. The Ideal Rabbitry, 812 21st St., Washington, D. C. Rufus Reds, Snow Whites, beautiful Blacks, at way-down prices. See any journal for our winnings. E. L. BARCLAY, Prop., Breeder, and Importer. E. L. Barclay, Jr., Manager. Write for price-list. Send 25c for our 48-page Belgian Hare Guide (stamps accepted). Healthy meat stock, \$5 per trio. Beautiful Cavies, \$3 per pair.

1902 NEW YORK WINNERS, two firsts, two seconds, are the kind I breed, price right, satisfaction or money back, state wants. REIDER, Rome, N. Y.

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DUCKS—10 varieties. Winners of Silver Cup, Auburn, N. Y., 1902. Toulouse Geese, Rose Comb Leghorns, Buff Cochins Bantams, White Rocks. Eggs, \$1 per setting; \$6 per 100. MRS. R. D. BUTTON, Cottons, N. Y.

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"TURKEY CULTURE," just out, giving the experiences of the most successful turkey raisers in the United States. Every turkey breeder should have one. Price, 50c. EXCELSIOR WIRE AND POULTRY SUPPLY CO., 26 and 28 Vesey Street, New York City.

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BEAGLES.—8 pedigreed bitches 8 months old, two only 10 ins., at ten dollars each, until June 20. Also younger pups. DEBONAIR KENNELS, Gloversville, N. Y.

BULL TERRIERS, pit bred, dead game, pedigreed, and great watchers. OLD HICKORY KENNELS, Greenville, Miss.

ANOTHER EXTRA NICE LITTER OF Collie puppies out of Flora G., Charlie Columbus a worthy son of Champion Christopher. Flora sired by Paradox, winner of 68 firsts and \$300 special. Puppies all sable and white. Four dogs, three bitches. Bitches spayed if desired. W. W. KULP, Box 20, Pottstown, Pa.

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100 FANTAILS for sale. Blacks and Whites, breeders and show birds in lots to suit, imported stock, no better in America. Prices reasonable. E. A. HOLBROOK, Winchester, Mass.

DRAGONS IN ALL COLORS.—Also Homers, Trumpeters, Tumblers, Owls and White Cochins Bantams. Satisfaction guaranteed. Write for prices. JOHN HERTZ, Hanover, Pa. Box 446.

POUTERS, CARRIERS, Dragons, Homers, Barbs, Fantails, Orientals, Turbits, Owls, Tumblers, Jacobins, Magpies, Swallows, Archangels, Guinea Pigs, Mice and Maltese Cats, \$1 pair up. No circular. State wants. DAVID G. CLAUS, Jacksonville, Ill.

HIGH-CLASS JACOBINS in all colors but Blue at \$2.50 and \$5 per pair. My birds won 14 regular and 2 special prizes at the late Boston Show. A few Satinettes and Blondinettes, one Bluette cock to close out. GEO. W. UNGER, Boyertown, Pa.

FOR SALE CHEAP.—Fifteen pairs of Dutchesse Pigeons; fine birds; all mated for best results. Address P. S. EMMONS, Idell, N. J.

A RARE CHANCE to buy Barbs, Frill Backs, German Beards, Booted Moorcaps, and Starling Quakers. Fifty other varieties. \$1.50 per pair up; eggs, 50c. per pair. Buy, sell, or trade. Send stamp to HOOD, The Great Charity Man, Somerset, Mass.

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HOMING PIGEONS.—I have a number of fine cocks in Blue and Black Chequer and several pairs of mated birds (excellent breeders) that I will dispose of at reasonable prices. The above birds are pure-blooded Homers, and bred from reliable stock. Also a limited number of youngsters bred from the same strain. G. R. BAYLE, 1643 Race St., Philadelphia, Pa.

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COUNTY LINE POULTRY FARM breeds prize-winning Buff, Barred, and White Rocks, Light Brahmas, Buff and Brown Leghorns, Buff Cochins Bantams, Rouen Ducks, Toulouse Geese, and Mammoth Bronze Turkeys. Winners at Washington, Rochester, Hamburg, Fredonia, and Elmira are in my this-year's breeding-yards. New catalogue for stamp. Yards situated 40 miles west of Rochester, N. Y. on R. W. & O. R. R. Address, A. G. BARLOW, Barkers, N. Y. Please mention The Feather.

BEAN makes a specialty of all kinds of Buff fowls. 500 premiums won under Butterfield, Felch, Pierce, and Holden. Poultry supplies at cut prices. Yours for Buffs. Write, W. M. BEAN, Anoka, Minn.

SOME OF MY BARGAINS: 9 S. C. Buff Leghorns, \$10; 6 S. C. Black Minorcas, \$8; 8 S. C. White Leghorns, \$8; 15 S. C. Brown Leghorns, \$15; 10 B. Rocks, \$15; 3 Laced Wyandottes, \$3. J. M. CASE, Stony Point, N. Y.

60 VARIETIES Black Braested Red Game, Buff Orpington, Red Caps, Partridge Columbian Wyandottes. Eggs and pigeons. A. C. EPPLEY, 123 N. Geo. St., York, Pa.

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TO INTRODUCE MY BREEDS will sell eggs at 75c. per setting; three settings, \$2. Barred Rocks direct from Bradley. White Rocks pure Fishel blood. White Wyandottes, pure white. Black Minorcas and Langshans of the best strain. I sell the same as I use myself. C. L. YERGEY, Pine Iron Works, Pa.

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13 EGGS 70 CENTS.—White and Barred P. Rocks, Wyandottes, Rose and Single Comb Brown and White Leghorns, Black Minorcas, 15 other varieties. Circular, 2 cents. J. A. RUBRECHT, Telford, Pa.

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CHARLES'S THOROUGHbred POULTRY. 10 leading varieties: Barred and White Plymouth Rocks, Light Brahmas, Buff Cochins, White and Black Wyandottes, Single Comb Black Minorcas, Rose and Single Comb Brown Leghorns, Buff Leghorns, Games, and Silver Spangled Hamburgs. Eggs in season, \$1 per 13. Also Belgian Hares. H. H. CHARLES, Route No. 1, Lancaster, Pa.

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FINE buggy harness, cream separators, bicycles, incubators, sprayers, Belgian Hares, Silver Wyandottes. Eggs, \$1. Fine Catalogue and memorandum for stamp. ROSE HILL, Zionsville, Ind.

S S HAMBURGs and Buff Leghorns. Eggs from highest-scoring yards possible to obtain. New York and Orange winners. Can fix you up for any show. Circular. WM. VANDERMAAS, Midland Park, N. J.

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G R. STOVER, Coburn, Pa., sells White Wyandotte, Barred Plymouth Rock, and Brown Leghorn eggs, \$1 per 15. Satisfaction and good hatch guaranteed.

EGGs for sale from prize-winning Barred Plymouth Rocks, Light Brahmas, Single Comb White Leghorns, Rose Comb Brown Leghorns, and Black Langshans. Special Matings, \$2 per 15. Incubator eggs, \$3 per 100. S. G. HOKE & SON, Spring Forge, Pa.

EGGs from fine pens. Rose Comb White Leghorns, Rhode Island Reds, Buff Rocks, Barred Rocks, White Wyandottes and Dragon Pigeons. EQUIVALENT POULTRY YARDS, Norwood, Pa.

SHERWOOD'S outweigh Rocks, outlay 'Dottes. Hardier than Games. Beautiful White Birds; eggs, only \$2. Catalogue free. SHERWOOD'S FARMS, Pomeroy, Hemlock Grove, and Downington. General Office, Room 1, Court House, Pomeroy, Ohio.

MONGOLIAN and English Pheasants' eggs, \$1.75 a setting; Golden Pheasants', \$3.50 a setting. Hamburgs', Anconas', Games', Sebright Bantams', Indian Runner Ducks', and Rhode Island Reds', 90 cents a setting. Birds, \$1.50 each. Fantails (Havemeyers'), all colors, \$1.85 a pair. Illustrated catalogue, all breeds, directions raising, Pheasants, exchanges, 6 cents. Reply stamp only. FERD. SUDOW, Amityville, New York. Wanted: pigeons, Fantails, poultry, and pheasants.

EIGHT choice breeding-pens containing 200 fine Single and Rose Comb White Leghorns. Eggs, \$1.50 per 15; \$5 per 100. Also Buff Rock, White Rock, White Wyandotte, and White Leghorn Stock for sale. BONNIE BRAE POULTRY FARM, New Rochelle, N. Y.

CHOLERA, CANKER, AND ROUP.—Guarantee to cure in less than a week or money refunded. Every one having poultry needs it. Will sell recipe and full directions for \$1. H. S. WHIMERT, Kump, Md.

BLACK MINORCAS, White Wonders, Sherwoods, Rose and Single Comb Buff and Single Comb White Leghorns, White and Buff Plymouth Rocks, White Wyandottes, Rhode Island Reds. Eggs, \$1 per 15. Catalogue, giving description and winnings, free. HILLSIDE POULTRY FARM, Cortland, N. Y.

BUFF ROCK EGGS, \$1 per 13; \$2 per 30. Single Comb Brown and White Leghorn eggs, \$1.25 per 30. J. WOLF EVANS, Spring Mills, Pa.



CHOICE EGGS FOR HATCHING ...AT... HALF-PRICE FROM BRINSERS' PRIZE-WINNING STOCK.

We will sell eggs from our finest matings from the 1st of June until the 1st of September, and ship to all parts of United States. Guarantee safe arrival and fertility for only \$1 per setting straight.

VARIETIES—Buff Plymouth Rocks, Barred Plymouth Rocks, White Plymouth Rocks, Light Brahmas, Dark Brahmas, R. C. Black Minorcas, S. C. Black Minorcas, White Wyandottes, Buff Wyandottes, Golden Wyandottes, Silver Wyandottes, White Cochins, Buff Cochins, Sherwoods, S. C. White Leghorns, S. C. Brown Leghorns, S. C. Buff Leghorns, R. C. Brown Leghorns, Silver S. Hamburgs, White Cochin Bantams, Buff Cochin Bantams, Buff Brahmas, C. Indian Games. Pigeons—700 Flying Homers and White Pouters. Dogs—Scotch Collies and Beagle Hounds. Rabbits, Belgian Hares, Rufus Red.

The above varieties are pure-bred. Order quick. Stock for sale of varieties. Prices low.

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5 CENTS EACH. Eggs from Mammoth Pekin Ducks, Single Comb Black Minorcas, Rose Comb Brown Leghorns, Single Comb White Leghorns, Light Brahmas, Barred Rocks, as many as you want. Fifty acres devoted to these splendid varieties, as good as the best. **BOYD & SHRYOCK, Box 60, York, Pa.**

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WANT TO BUY from 200 to 500 White Wyandotte or Light Brahma chicks, April or May hatch, 1902. **WM. WARREN, 908 F St. N. W., Washington, D. C.**

NOTED STRAINS Black Langshans, White Wyandottes, Single and Rose Comb Minorcas. 15 eggs, \$1.50. Black Belgian Hares, \$2 a pair. Stamp. **MRS. IRENE FLEMING, Circleville, Ohio.**

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75 CENTS 13 eggs, two sitting lots. "Wild Rose" White Wyandottes; pure white. Brown eggs; fertility guaranteed. Buff Rock eggs. Booklet free. **COOK, Andover, Conn.**

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Exclusively.
Line-bred for years.
Winners at the Leading Shows. Eggs, from five selected matings that will produce winners, \$2 per setting. Satisfaction Guaranteed.
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Brown Leghorns. 20 FEMALES.

These are grand birds and among them are some great winners. We will sell them from

\$3 to \$5 Each.

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BOILED BEEF AND BONE.



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Regularly on B. B. and B.

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B. B. B. Is guaranteed cheaper than meat, better than scraps and safer than medicine. It will make hens lay more eggs and keep them in better health than any other food or condiment. Sample free. 50 lbs \$1.25. 100 lbs \$2.25.

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Prize-Winning Leghorns.



The birds at the home of the S. C. W. Leghorns, won a great record in 1900, as many of you know, but it seems as though in the year 1901 they had reached the top notch. At the Fitchburg Show, Dec. 31st to Jan. 3rd they won 5 firsts, 5 seconds, 2 thirds and 6 specials, also silver cup for best cock, hen, cockerel, pullet, and pen in any one variety of Leghorns; all this on 14 birds.

Birds from these yards have won more firsts in the hands of my customers at the leading fall shows such as Concord and Nashua, N. H., Greenfield, Brockton, Clinton, Brattleboro, etc., than all others put together.

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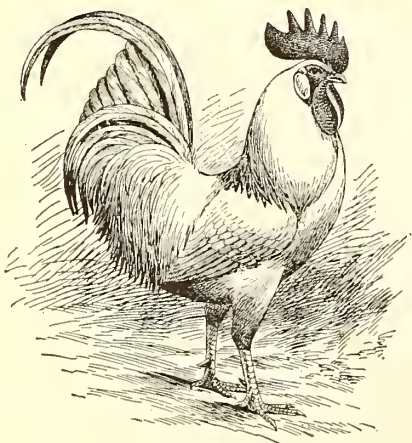
Eggs from 1 setting to 1,000 eggs at reasonable prices.

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WE KNOW that every poultryman whether in business on a large or small scale needs printing, and we are confident that we can please all, because we have the finest printing plant in this section of the country. We also have cuts of every standard variety of poultry, Ducks, Geese, Turkeys, etc., which we use on all of our printing free of charge.

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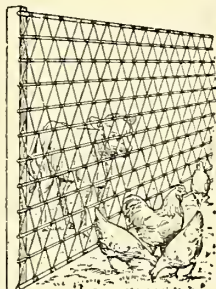
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Are no experiment, having been carefully selected and bred for over twenty years, with results that fully justify the claim that they are the greatest laying strain of Single Comb White Leghorns in existence. No labor or expense has been spared in building up and perfecting this strain, and while the production of large, pure-white, fancy market eggs has been the main object, **STANDARD QUALITIES** have not been neglected. They are large, vigorous, active, and handsome. Good winter layers, and keep at it all summer. Our birds are unexcelled for introducing new blood, or as foundation stock. **NO BETTER ANYWHERE AT ANY PRICE. EGGS FOR HATCHING, \$2 per 15; \$3 75 per 30; \$5 per 45; \$10 per 100.** Illustrated circular free.

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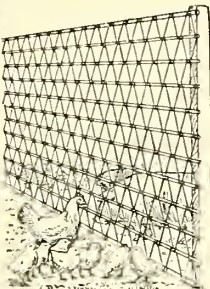
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WILL NOT SAG OR BUCKLE

Will turn Calves, Hogs, Dogs, Wolves, Rabbits and Poultry. No top or bottom rail required. Size of Mesh, 2 inches. Size of Wire, No. 12 at top and bottom; intermediate line wires, No. 16; mesh wires, No. 18. **Sold at Anti-Trust Prices.** Also a full line of Farm and Ornate Fence. Send for free Catalogue. Address,

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BUFF WYANDOTTES.

WHITE WYANDOTTES.

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ROSE COMB WHITE LEGHORNS.

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THE whole country knows of the wonderful success that the Riverside Farm has made on the above varieties at the leading shows in America. In five years our birds won at New York, Boston, and Washington, 186 firsts, 60 gold specials, 18 silver medals and 6 silver cups. Our line of blood is unsurpassed, and we are producing specimens that are winning all over the country. The blood is pure and we breed only the best. We can supply your needs. Send for illustrated circular giving full prize records of our birds. We also breed Guernsey Cattle, Scotch Collies, and Fox Terriers. Satisfaction guaranteed in every particular.

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THE Old Homestead Brooder

Is the only Brooder made in the world that will hover its allotted number of chicks until they are three months old. We make three sizes, 30, 50, and 100 chicks. Catalogue free.

OLD HOMESTEAD BROODER CO.,
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Reduction—\$1 for 15 Eggs.

Not too late yet to raise fine ones from my famous 242-egg strains Rose and Single Comb Brown Leghorns, both winners of firsts at New York and Boston. Rose and Single Comb White Leghorns, Rose won 1st at New York and Philadelphia, 1902. S. C. White fine. Barred and Buff Rocks from the very best, White and Buff Wyandottes, Duston and Mattison strains. P. Ducks, \$1 per 12 Eggs. Silver Sebrights, \$2 per 13. Collie puppies and Red Belgian Hares.

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"The Brooder With Advantages."

Booklet free upon mention of this paper.

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LEFFEL'S Unconquerable Barred Rocks

Always Win the
Lion's Share
Of Prizes.

If you do not believe it, SEND AND GET HIS CATALOGUE, and it will tell you who scored his birds. He stands in front, with highest scores by leading judges. I. K. Felch gave one of his cockerels score of 95 points, and wrote across score-card, "Every doubt given against this noble big fellow;" weight, 11 lbs. H. A. Bridge gave one of his birds score 95 points. B. N. Pierce cut one of his cockerels one-half in color. L. G. Jarvis, Guelph, Canada, scored 4 birds 94½. J. Y. Bicknell scored cockerel 94½. Charles McClave 93½ scores of birds. I have exhibited 25 times in past 8 years and won 24 times on cockerel, and tied the other one score. Sharpe Butterfield scored 3 cockerels in one show 93½. Send for my catalogue and see my winnings and scores, and who scored them, and you will say I lead the procession in winnings. Elegant breeders in any number.

NEVER LOST ON BREEDING-PEN

in any score-card show, nor any pullet where they were weighed and weighed correctly. Only lost once on first cock. I won all prizes at Springfield, O., Aug. 21-24, 1900, all prizes offered. My strain won all prizes at Urbana, O., Aug. 14-17, 1900, this season making 30 times I have exhibited in 8 years. No breeder ever made such a record.

Ten Times I Won Every Money Prize Offered.

Will sell 20 yards after May 15. Residence 363 South Fountain Ave. Farm one-half mile from city.

EGGS from Best Pens Only.
\$4 per 13; \$7 per 26; \$9 per 26.

GEO. M. LEFFEL, Springfield, O.

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Cure
Guaranteed.

ConKey's Roup Cure is the only positively known remedy to cure Roup in all its forms as long as the fowl can see to drink. Simply put the cure in drinking-water, and the fowl takes its own medicine. For Canker, especially in pigeons, this cure excels all others. Our 50c. package makes 25 gallons of medicine. Directions with every package. If it fails to cure, we refund the money. Postpaid, small size, 50c.; large size, \$1.

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For Sale by all Poultry Supply Houses and Druggists.

PEEP-O-DAY, is the most successful brooder in America. Our \$5 Brooder is the best one made. Portable Poultry and Brooder-Houses, etc. We sell the metallic parts and plans to make our brooders so that you can save on freight charges. Catalogue free. E. F. HODGSON, Box 60, Dover, Mass.

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French Insecticide

is a CERTAIN PROTECTION to PLANTS, POULTRY and LIVE STOCK from PARASITES of all KINDS. DEAD SURE for MOTHS and CARPET BUGS. Will keep for years. NEEDED in EVERY HOUSE. 45c. pre-paid. Superior to any Domestic Article Known.

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ROYAL BLUE STRAIN

PLYMOUTH ROCKS

BARRED, WHITE AND BUFF.

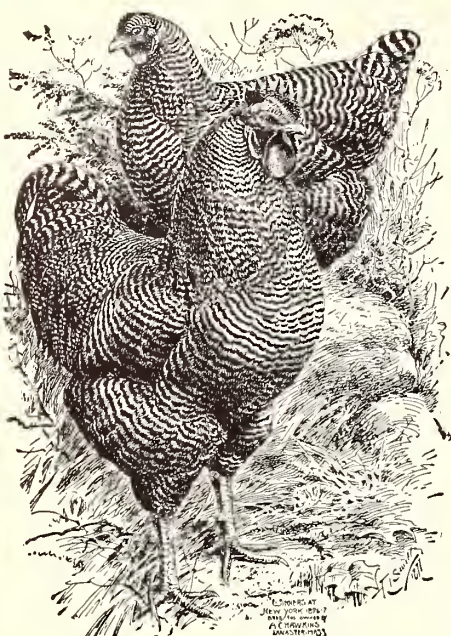
WYANDOTTES, SILVER WHITE
AND BUFF.

ECCS FROM PRIZE
MATINGS.
1 Sitting, \$5. 3 Settings, \$10.
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Per 100, \$20.00.

Have won more prizes at New York, Boston, Washington, and America's greatest shows than all others. My matings this season are the best I ever owned. * * * * *

At the Great National Show, WASHINGTON, D.C., in hot competition with over 300 birds of these varieties, the best that could be found regardless of price, I won 45 Regular and Special Prizes on 39 Entries, including First Prize on Breeding-Pen in each variety, Special for Best Display in the American Class, Special for Best Exhibit of Plymouth Rocks, Sweepstakes Special for Best Cockerel in the show (Bantams excluded), and this on my First Prize Barred P. Rock Cockerel. My winning White Wyandotte cock was pronounced by the judges to be the best they had ever seen. I won twice as many first prizes as all other exhibitors of these varieties. My BUFF ROCKS, at Boston, 1899, in hot competition, won more first and special prizes than all others. My customers are winning all over the country. If you want the BEST, write me. Hundreds of Choice Exhibition and Breeding Birds at Honest Prices. Catalogue of America's finest Plymouth Rocks and Wyandottes free.

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Winners at New York, from Life.

White and Buff Wyandottes,

The Greatest Strain on Earth.

White, Barred, and Buff Rocks.

Equal to Any and Have no Superiors.

OUR BIRDS have won the past season 105 regular and special prizes in Boston, New York, Philadelphia, Orange, Hagerstown, Cortland, and York. Eggs from all our best birds, \$1 per setting of 13 after May 1st, 1902. Our illustrated and descriptive circular will be mailed free. Look us up in Dun's Mercantile Agency, or address the City Bank, York, Pa.

PLYMOUTH POULTRY FARM CO.,

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"RINGLETS" Soar Still Higher.

At the Empire Show of the Nation—Madison Square Garden, N. Y., the World's Record of
E. B. THOMPSON'S BARRED PLYMOUTH ROCKS

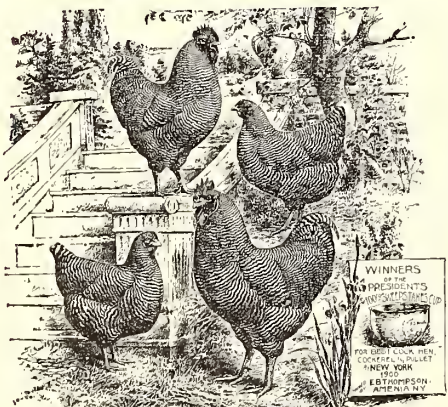
4 Years in succession was the most remarkable ever achieved in the realm of poultry exhibitions. This record is by many points the highest ever accomplished in annals of the New York Show. Winning more than three times as many 1st prizes as any other exhibitor, and as many 1st prizes as all competitors combined. Besides, more than twice as many cups and specials as all, including the superb challenge trophy, value \$100, for best cock, cockerel, hen, pullet and exhibition-pen; \$100 sterling silver cup for finest exhibit; grand special prize sweepstakes cup, value \$100, presented by the President for best P. Rock cock, cockerel, hen, and pullet any variety. My clean sweep of

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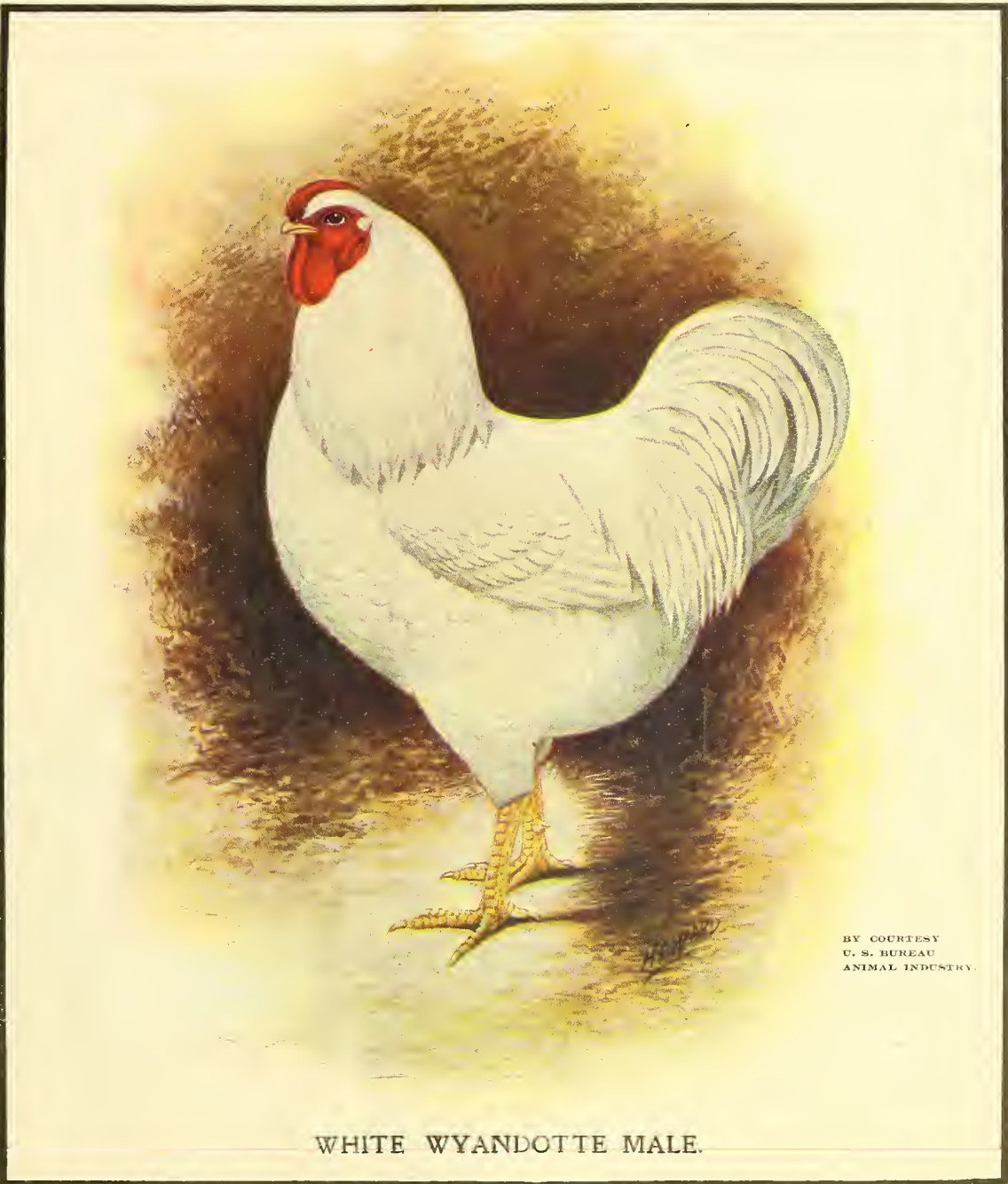
EGGS From Finest Exhibition Matings, 1 setting \$5; 2 settings \$9; 3 settings \$12; 4 settings \$15.

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Winners of the President's \$100 Sweepstakes Cup for best cock, cockerel, hen, and pullet at New York.

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Noyes' Buff Rocks win the laurels at every show in the State this season. At Torrington, Hartford, Danbury, Waterbury, Wallingford, Stamford, and Bristol; also Providence, R. I. At Boston, C. on pullet (42 competing), C. on hen (22 competing). Send for circular giving complete awards and full particulars. Eggs from very best pens, \$2 per 15 straight. No seconds. Mention The Feather.

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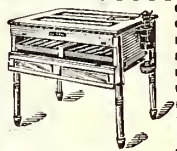
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Stock birds of large size, having fine color, and of excellent strain.

Eggs, \$2 per setting. A good hatch guaranteed. Write for information.

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WHITE WYANDOTTES

We ever got out. Stock for sale later.

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Time and time again the Cyphers 360-egg machine in the hands of our customers has hatched upwards of 300 chicks from 360 untested eggs. Allowing ten chicks to the hen, it would take thirty hens to hatch 300 chicks.

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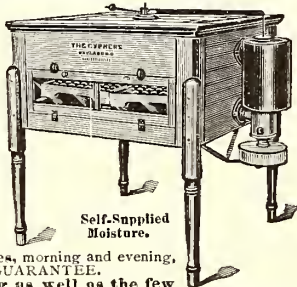
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Light Brahmas, Partridge and Buff Cochins, White and Barred Plymouth Rocks.

Also Buff Cochins, White Japanese and Black Breasted Red Game Bantams. Toulouse Geese and Pekin Ducks. Fowls and Eggs For Sale. Thoroughbred Jersey Cattle.

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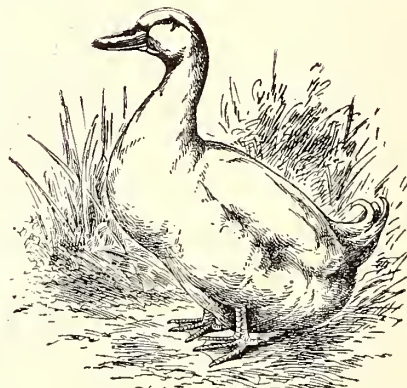
At N. Y. City, 1900, 1st cock, 1st, 4th, and 5th cockerels; 1st, 2d, and 4th hens; 1st, 2d, and 3d pullets; 1st, 2d, and 3d exhibition-yards. Fine exhibition and breeding stock for sale.

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BARRED ROCKS.

Our record in this variety is seldom equalled. We have won first prizes at New York, Toronto, Hagerstown, Pittsburg, and other leading shows. Our breeding-pens are better this season than ever before. Eggs from the best, \$3 per 15; \$5 per 30.

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WAS AWARDED TO
Millville Poultry Farm's Buff Plymouth Rocks

AT BOSTON, 1902.

\$100 CHALLENGE CUP FOR BEST MALE.

Club cup for best cock, hen, cockerel, and pullet. Gold special for best cock and two hens, and numerous other specials went on our birds. 1st cock, 4th hen, 2d and 5th cockerels, 3d pullet, in a class of the 172 best Buffs ever shown, combined with our Philadelphia, Pan-American, and New York winnings, place our Buffs far in the lead. Our Barred P. Rocks, White and Buff Wyandottes, and Pekin Ducks have an equally good record.

Eggs from our WINNERS, \$3 per 15; \$5 per 26. Send for our free illustrated catalogue and mating-list.

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Have won more prizes at the past five Club Meeting Shows than all other strains combined. Winning at Philadelphia, Pa., from December 28, 1901, to January 2, 1902, 1st and 2d cocks, 1st, 2d, and 4th hens, 1st cockerel, 2d pullet, and 1st pen; and 18 specials, including 4 silver cups in a class of 71 single entries and 7 pens, winning the Club (\$250) Cup at New York, 1898, 1899, and 1901. 5 Grand Pens mated with the best birds in America, in them eggs from these pens, \$5 per 13; \$9 per 26. One special pen headed by Anthracite, Jr., weight 10 lbs.; 1st cock at Philadelphia; acknowledged by judges to be the Best Minorca Male ever seen, mated with 8 grand females each weighing from 7 to 8 lbs. A limited number of eggs from this pen, \$10 per 13 straight.

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12 for 30c; 25, 50c;
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Sealers 50c, 65c,
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20 doz. 20 for \$3.50 for 60 100 for \$1.

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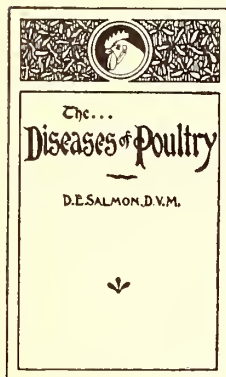
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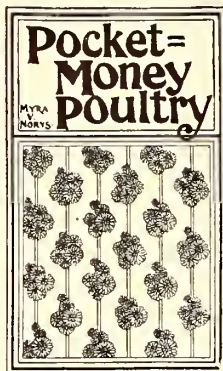
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the same old way when our new plan beats it 10 times. 100 Egg Hatcher Costs Only \$2. Over \$4.00 in use. 1000 chicks. 5000 agents wanted for 1902 either sex. Pleasant work. Big profits. Catalog and 10c Egg Formula FREE if you write today. Natural Hen Incubator Co., B 9, Columbus, Neb.

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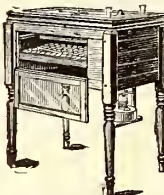
with both pleasure and profit. There are none so old and experienced but that they have still much to learn. Perfection in this as in other occupations is hard to attain, and those who are doing the best still find room for improvement.

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A Treatise Giving Hints on the Successful Care of Chicks, by Both Natural and Artificial Methods.

By **MICHAEL K. BOYER**, Editor Farm-Garden and Poultry.

The following subjects are extensively treated by the most successful poultrymen:

Raising Chicks in Brooders; Brooders vs. Hens; Broilers; Theories of Broodiness; The Newly Born Chick; Handling Brooder Chicks; Colors of Young Chicks; Teaching Chicks to Roost; Crippled Chicks; Time to Hatch Chicks; Summer Chicks; Back Yard Chicks; Weights of Chicks; General Care; Coops; Cannibalism; Diseases; Foundation; Feeding; The Houdan Chick; Broody Hens; Natural Incubation; Lice; Mating, Weight, and Color; Shade vs. Sunshine, etc., etc.

THIRTY-FOUR DIFFERENT METHODS OF FEEDING CHICKS.

A HUNDRED FACTS NOT GENERALLY KNOWN.

Special articles have been written for this book by M. K. Boyer, A. F. Cooper, G. W. Nones, W. W. Kulp, A. G. Duston, M. V. Norys, and P. H. Jacobs. Also numerous notes by other prominent writers.

Everybody should have a copy of this book for reference, as it is the only one ever published in the interests of little chicks, and contains valuable information found nowhere else. Over 160 pages.

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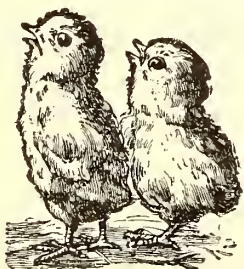
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WASHINGTON, D. C., JULY, 1902.

FIVE CENTS.

THE GROWING CHICK

Should Have Special Attention During Summer.

The High-Class Exhibition Fowl will be Made or Lost During the Next Ninety Days.

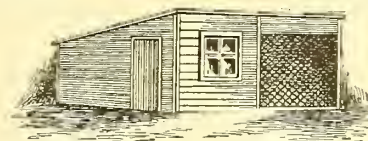
THE exhibition fowl, the best producing specimen, the high-quality market fowl, and the best laying pullets will be produced as the culmination of care bestowed upon the growing chick within the next ninety days. High-class matings are essential to success. Without the well-bred and properly-mated parent there can not be success; but no matter how well bred the specimens may be that produce the chick, these chicks will not grow into winning specimens of merit unless they are so reared as to gain size, quality, and constitutional vigor. Perfect health gives form and feather the chance to develop, this same imparts constitutional vigor to body, and gloss and finish to the plumage. Shape, size, and good condition depend largely upon good health that is necessary for the finish of the market fowl or the laying hen.

The heated air of the hot days and nights of summer is enervating to the growing chicks. We must so care for them as to counteract these weakening conditions and keep them thrifty. One of the most injurious surroundings is to have them shut up in close, confined coops during hot nights, or to have

lose more in one night than they can gain in a week. Always have plenty of room in their coops, also good ventilation. What we call blind-staggers may be caused by close, confined quarters that heat the blood which rushes to the head and causes death.

SHELTER AT NIGHT.

A good-sized packing-case or store-box can be transformed into a splendid colony-coop. Cover the top with tar paper, nail strips across the front to



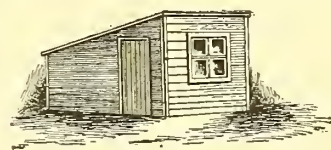
Growing-House With Shed.

keep the chickens within and prowling vermin without, make a door that can be closed at night and teach one or two hens to go in here each night with their broods. When the hens quit the chicks they will have a home till cold weather comes. As soon as the chicks are old enough put a roost in for their use, two if needed, so the chicks may roost off the floor, which keeps them cooler at night; in this way each lot becomes a separate colony, they will stay to themselves most of the time and wander about together. Each lot should be fed night and morning at least, near their own coop. These coops should be kept clean all the time, and it is well to move them a few feet each week so they may rest on fresh, dry ground.

SHELTER FROM THE SUN.

Shade is of importance, and when Nature has not provided shelter from the sun it is well to supply a covering of some kind for their benefit. Rude frame-work covered with brush, canvas stretched for a shelter, vines trained on frame-work, growing corn, or bushes of

any kind are good. A profitable shade or forest for the chicks is a well-matured asparagus-bed or a lot of rhubarb-plants; both of these yield a profitable crop in the spring and furnish good, cool shelter for the young chicks as the days grow hot. All these are profitable



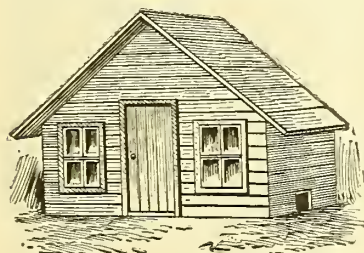
Small Closed House.

conveniences that are of benefit to the chicks. Berry-bushes, Japanese plum-trees, and quince-bushes or trees may be made useful in the double role of fruit-bearers and shade-producers.

As there are so many cheap and profitable ways of providing shelter no one can have a plausible excuse for not having at least enough for the comfort of the young, growing chicks. Where nothing else can be had one can at least put up a muslin shelter a yard wide along the fences so the growing youngsters may have some pleasant spot away from the rays of the sun. Currant-bushes, gooseberry-bushes, or grape-vines may be so located as to produce a crop and furnish shelter. Do not attempt to gain success with poultry unless you can provide quarters and surroundings that will naturally aid in their keeping.

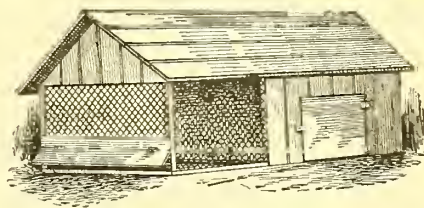
SUMMER FEEDING.

We might fill these columns with what to feed and how it should be fed, but of this we shall not go beyond the actual necessities of our subject, that calls to mind the fact that we are endeavoring to aid in the strong develop-



A Cheap House.

them crowded into close quarters at any time, either day or night, during hot weather. When they are packed into close, hot quarters at night they will



Another Style Growing-House.

ment of all young fowls during the hot months of summer, and shall only refer to their proper feeding during this time. We do not give enough con-

sideration to oats as a food for growing chicks. Now that hulled oats may be had at a reasonable price it should be more generally fed. Hulled oats, wheat, and broken corn, of equal parts, will make a splendid grain diet for the growing chick, with plenty of these, (all they will eat) and their full liberty to run about for insects, bugs, and green food, they will be well provided for in food. Grit and plenty of water must be at hand all the time.

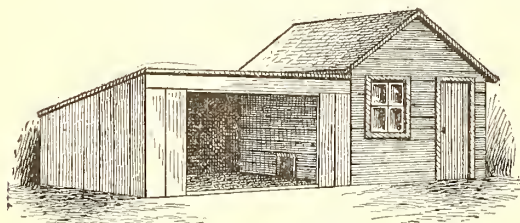
One good, strong feed per day of mixed mash food is of benefit at all times. If it can be mixed with hot milk, either sweet or sour, so much the better. Do not feed it hot at any time, but specially in warm weather. At all times it should be scalded a few hours

may be averted if we will only keep the coops and surroundings clean. Milk is one of the very best of foods for growing poultry, but when it is so used as to allow the ground about to be smeared with it more harm, ten times more, is done than the good obtained. The causes for this can be presented so plainly that all can see. The young chick smears the milk on its down, it dries and sticks the down together, it becomes sour, the down sticks so close to the chick that the sun can blister the back, the chick runs under the hen and her feathers become sour. All of this breeds ill health. The older fowls and chicks scatter the milk about on the ground, it becomes sour and pollutes the ground; hot, sultry days follow a wet

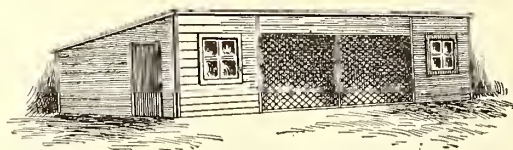
If fed, they will be contented; if not, discontented and worried, a condition that sets them back. Good care pushes them forward; poor care or neglect keeps them back. If method rules our work more of success will follow; when neglect rules, the opposite is the result.

CONTINUOUS CULLING.

The apt poultryman culls his flock from the day they are hatched. Never will he allow those to live that are born with crooked legs or feet. Such are an annoyance and trouble as long as they live, they cry all the time and scramble for an existence. Such should be done away with at once. It is a waste of time to try to bring along the sickly and puny young, for they are in the



A Practical House for Growing Chicks and Fowls in Winter.



Double House with Wire Runs.

prior to being fed, and allowed to stand till about as cool as fresh milk from the cow. The benefit gained from this kind of food is quick assimilation of the food, which passes through the gizzard more quickly in this form. This kind of food hastens the growth of both body and feathers. The meal for the mash may contain ground oats, cornmeal, wheat bran, and middlings, equal parts by measure, and if some ground buckwheat and barley are added they are quite an addition. The finer all these are ground the better. They can not be ground too fine, seldom are they fine enough. It is well to make this mash food one-tenth by weight of good meat-scrap for the growing chick that has full range, and more in proportion for those that are confined where they can not get plenty of bugs and worms.

This way of feeding should keep them sturdy and growing all the time, if the proper coops and shelters guard them from injury at night. The fulfillment of these demands is quite simple and inexpensive and may be easily provided by all who make any pretensions at growing fowls. There are so many things presented that are neither needed nor of benefit. What the young, growing fowl really needs is the proper foods to develop it as quickly as possible and at the same time grow bone, meat, muscle, and feather in proper proportion. The foods above mentioned will do this to the best advantage and not overgrow or push too fast any one section. There is by far the most advantage to be gained from food, and when this is attained to a nicety you have the balanced ration.

CLEANLINESS AND CARE.

That success may follow the labor bestowed it is absolutely necessary that the coops and surroundings shall be kept clean. There are several reasons for this: If the droppings are allowed to accumulate the odor from same must be constantly inhaled into the lungs of the fowl—you know what the same would do for you. A few wet days turn filthy surroundings into a seething pool of infection that brings canker, diarrhea, gapes, and pip. All these troubles

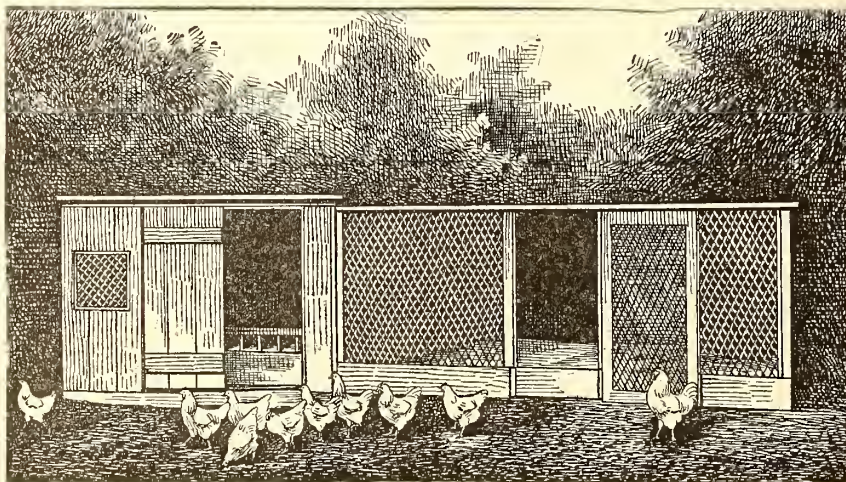
spell and the odor from the ground is worse than the hog-pen, the flies come in swarms and deposit utter destruction in this breeding bed of ill health, gape worms follow, and next season we wonder how it was possible for the gapes to come into our flock of young chicks. It is, we think, better to swill the hogs with the milk than to give it to the fowls and chicks in this way. If properly fed to them it is grand, but if used as a swill to smear about it is bad. Scald the milk and mix the mash with it.

Under care comes the method of feeding and the first point is regularity of feeding. Some plan should be adopted so the growing chicks can have their early-morning meal at daylight. Either it should be left for them the night before where they can get it at sun-up, or the one who feeds should be on hand at this early hour to feed them. To do the best they should have this early-morning meal as soon as the sun is up or as soon as it is fully daylight. Their crops become empty during the night, and it is the natural thing for them to fill up as soon as they can see to eat. If they can not have the food they worry and chirp or cry till they get it.

way and retard the balance. As they grow the surplus cockerels should be sold for broilers as soon as they will do to kill for this purpose. All pullets of inferior quality should be treated in the same way, only keeping the very best of the males and females for our own future use.

Many have the habit of selecting the finest of all the early broods, in fact of all broods, to sell for market, and keeping the inferior, slower growing chicks for themselves. This is entirely wrong. Always keep the very best of every brood for yourself and send the others to market. If you sell the best your stock grows poorer each year; if you always keep the best for yourself your stock improves. The best of each brood are the ones that will make the profitable laying pullets for the coming winter. Those who sell the best as soon as they are large enough are the ones who seldom have any eggs in winter; they, having kept the inferior, slower growing ones for themselves, must await their full completion before they will lay, and this time come in the spring usually when eggs are plenty.

Those who select the best of every-



Colony-House with Covered Run.

thing they produce for future use usually prosper. Such select the best of all grain and seeds for planting, the best calves are reserved for milk cows, the same with horses, sheep, swine, and poultry. The best of all is kept to reproduce. In this way they have the very best each year, and all they have must improve, while those who continually sell the best as soon as it will bring the price, have poorer quality each year and get less for it each time. Those who select well and improve each year, have what might be called their poorest of better quality than is the best of those who go back each year. As the one gains and the other goes back the gap widens between them so fast that the culls of one lot become superior to the best of the other.

There can not be too much stress put upon this theory of continuous culling. Cull out day by day all inferior quality; never keep the hens that are not profitable egg-producers; grow all your stock from the very best, and continue in this from year to year and it will surprise you how fast your stock will gain in quality, egg-production, and value. The better you have it the more it will sell for, the more it will produce, and the more profitable it will be to you.

SELECTING THE PULLETS.

As your young stock grows select from all the broods the very finest, strongest, and most vigorous pullets to keep for winter layers. Size, strength, and vigor have so much to do with egg-production that one should study this continually in the flock and train the eye to see the best egg-producers while yet undeveloped. Save all such for your own use, never part with them unless you have more than you need. After they are selected keep them well under your own eye and select from all these the very best egg-producers to lay the eggs from which you will grow your future stock, and gradually in this way you will gain in egg-production. The best hens are the ones that lay the largest number of eggs that are of fair size, good form, and nicely finished. Such eggs sell the best, usually produce the best, and have the best value in the market.

The strong, vigorous pullets usually grow into large, sturdy hens that give

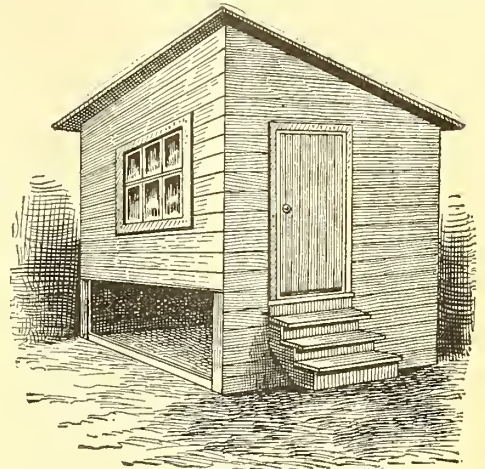
equally as good returns the second winter as the first. Such hens are most valuable as egg-producers and stock-getters. To gain all the advantages the best of care must be given the growing chick during the hot months. Much can be gained in this way, and it is well to at least consider all we have suggested in the foregoing remarks on summer care.

FOR EXHIBITION.

The winter winners of quality are usually the ones that have had the very best of care from the shell to the showpen. Such have had the proper care during the hot summer months. No trouble has been spared, and they have developed into strong, healthy specimens of real quality and thus made into show specimens. We have seen canvas spread to keep the sun from the hope-to-be winners, have seen them driven in out of the rain, and changed from house to house in long-continued wet spells, so their coops or pens might be cleaned. No trouble is too much for the real fancier, who covets the blue or the red at our best winter shows. During all the hot days of summer are their needs catered to in the fullest extent.

After the hot days have gone and fall comes on the pushing or forcing of the future exhibition specimens begins. Great judgment is needed at that time so as to keep them growing as fast as possible and not overfeed them, at the same time they must not be fed so as to make the combs develop too fast. Plenty of food must be given to keep bone, body, and feathers growing, but meat must be used very sparingly at this time, for it has a tendency to make the combs of both males and females grow too fast. All this can be avoided, but it takes actual experience to do this, for no set rule will work in all cases, and we must learn by actual experience how best to act.

Take the very best of care of your stock of all kinds during the hot summer. Both man and beast as well as fowl need due consideration at this time. No influence is so debilitating as is the overheated atmosphere, and we must counteract these influences by having the most healthful surroundings and care possible to have within reason. This can be done as shown above in a



House with Scratching-Shed Underneath.

very inexpensive way, and the good results from such care will more than repay the expense. Just give all these points your consideration and try them for the benefit of your fowls and your own profit.

Orpingtons.

We note in the latest issue of the Standard that the Orpingtons are placed amongst the American breeds. This seems to be a wrong classification for them, as they are as purely English as are the Dorkings themselves, and surely they should be classed with the English and not with our American breeds. Those who wish to find the Buff Orpingtons in the new Standard will find them on page 36A, and in the index you will find Orpingtons classed under the letter B. We presume this is to prevent the regular course that seems to rule in the Standard, and that is to add as many errors and faults as possible so as to finally have a comedy of errors.

Orpingtons have gained headway very fast in this country, and it is of importance for all to note that shanks other than pinkish-white or flesh-color disqualify. Standard weights all along the line are one pound heavier than the Plymouth Rocks. Beak must be white or horn-color, not yellow as in Buff Plymouth Rocks. The present English Orpington that wins the prizes is of a heavy, plump Cochon type, notwithstanding the fact that a long back is called for. Mr. Lewis Wright tells us that the large, plump body and the short shank is the most modern type of the Orpington. Formerly they had the longer back but this has been discouraged. We are somewhat surprised that our standard-makers did not know of this before they issued one for Orpingtons.

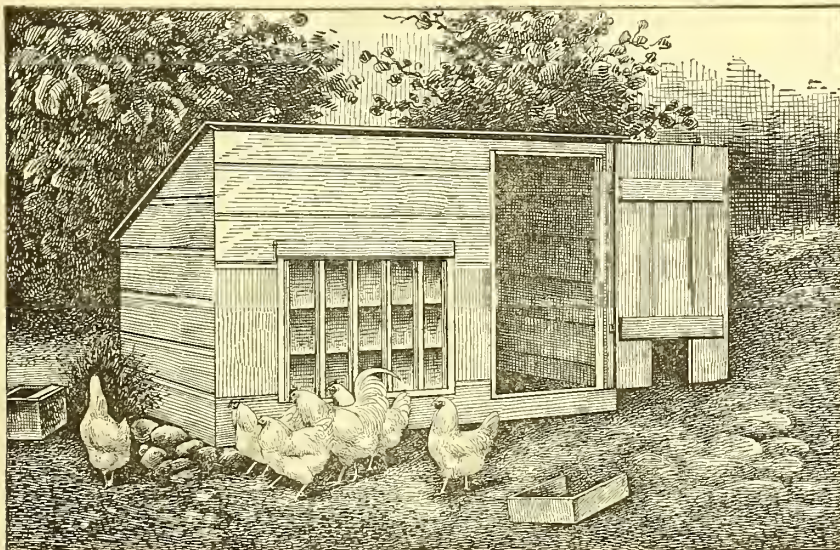
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A Colony-House without Runway.

FEEDING THE FOWLS AND CHICKS.

To Succeed With Fowls or Chicks They Must Be Properly Fed.

As the sound of the little chick is heard in the land all look about them for the best method of feeding. On all sides we see and hear of this one and that one that are doing the best, and we have gathered together how the most successful go about the rearing of their chicks, and shall publish same for the benefit of those who hope for the best results. At all times remember that above all the methods of feeding comes the proper care of the hen, the brooder, their surroundings and their houses, hens, henhouses, roosts, nest-boxes, and that everything must be clean and free from all dirt and insect life. If this is true you have the assurance of good health; if not, failure is assured in advance.

WHAT IT COSTS TO KEEP A HEN.

Where one keeps but a few hens and purchases his feed from the grocer the expense nearly, if not quite, equals the value of the eggs produced. In scientific, systematic, and economical feeding lies the profit in the poultry business, whether we are feeding for meat or eggs. To produce a ration that will carry a flock through the year, and at the smallest possible expense, requires considerable study. There are very few who know just what the food consumed by their flock has really cost, or what its nutritive value has been.

A ration for laying hens should contain a considerable variety of grains, grasses, and roots to tempt their appetites, and should be rich in egg-forming properties, the nutritive ratio being about one to four. This can be produced with cut clover and middlings for a morning mash, and the whole grain—corn, wheat, buckwheat, and as many more of the grains as can be obtained—for the evening meal, with the addition of raw cut bone twice a week. Beets, carrots, and cabbage can also be fed raw to good advantage.

Of such food a large hen will consume about one-fourth of a pound per day, and it should be made sufficiently bulky by the addition of clover and bran to the mash, so that this amount will give her at least two full crops. At the present prices of grain, and allowing that roots cost fifteen cents per bushel, a hen may be kept in confinement on the above ration at a cost of seventy-five cents per year. I have, by careful buying and judicious blending of the food products, kept hens satisfactorily at an average cost of fifty-six cents each per year.

I find buckwheat one of the best whole-grain foods for hens. They never become cloyed on it and it is a great egg-producing grain. In experiments made in feeding during the past winter, where the evening feed has been wholly of corn, I found that the substitution of buckwheat materially increased the egg-yield. Kaffir corn is a grain that should receive more attention from poultrymen. While its nutritive value is about the same as that of Indian corn, it is relished much better by the fowls and seems to produce more eggs. Where one raises his own grain I prefer

to feed both buckwheat and Kaffir corn, unthreshed, as working it out of the straw gives the hens exercise. Millet is highly recommended, and where it can be procured cheap is an excellent addition to the list of grains. In some sections of the West it is sold as low as thirty cents per bushel. I have only used it in an experimental way for young chicks, it being too high-priced in this section to allow its extensive use.

I prefer to feed but twice a day, especially during the winter, not only on account of the lessened labor, but because I deem it sufficient. If fed three times a day the hens are apt to wait for their food instead of searching for it. Where the mash is fed in the morning they usually secure a full crop and then attend to their duties on the nest and in the dust-bath until they become hungry, when they will begin work in the scratching-shed, endeavoring to find some of the stray kernels that were left from their last grain feed. Where hens are inclined to be lazy, it is a good plan to feed the mash or soft food at night, letting them work for their breakfast in the morning.

Where fowls are given free range or confined in extra large, grass-grown runs, and one has the land to produce nearly all the food required, it is possible to keep the expense down to thirty cents per annum, and this is the course to be pursued by those who would make a profit on ten-cent eggs, and where the hens are rightly managed they can be made to yield a good profit with eggs at this price during the summer season.

L. E. Keyser says: "The feeding of laying hens is no secret, but, on the other hand, there is considerable in the 'knowing how.' Over-fed hens will lay eggs that invariably fail to produce good hatches, and when the breeder notes soft shells or deformed egg-shells, he should know at once that he is over-feeding his hens and a change should be made. We are strong advocates of having plenty of litter in a poultry-building. We have never found anything better than oat-straw. Cover the floor of the building with at least a foot of it, and scatter their grains in the same. In this way it gives the hens plenty of exercise through the day, thus keeping them warm and in a healthy condition. Avoid feeding much soft food when eggs are wanted for hatching. On the other hand, feed whole grain, such as corn, wheat, buckwheat, and oats in connection with ground meat and bone. Feeding soft food is, in our opinion, where a great many make a mistake during the early season.

"The egg-production may be increased by feeding a mixture of egg-food, poultry-powder, pepper, etc., but the eggs will not hatch so well and a much larger percentage will die in the shell at all periods of incubation. Forced egg-production injures their vitality. Experience has taught us to entirely discontinue the use of all stimulants when eggs are wanted for hatching. If the breeder will only be as careful in trying to produce eggs as he is after he

gets them, there would be no trouble. We admit that in the early season, when eggs are very hard to get, too many operators set eggs that will not hatch under any circumstances, either in a machine or under hens.

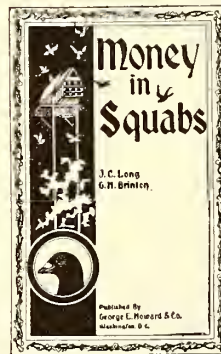
"Do not place eggs in an incubator that you would not place under a hen. For example, when you go to your basket to pick out eggs to put under a hen, no difference if there are fifty or more eggs in the basket, you will pick out thirteen or fifteen, as the case may be, of the nicest eggs that you can find. Not so with the incubator, for when you come to set it and eggs are scarce you will put in one hundred or more eggs of different sizes and deformed shells, and many chilled eggs. They fail to hatch and then the incubator gets the blame. Place eggs in machine that are as uniform in size as you can get them. Feed your laying stock carefully and provide warm quarters for them."

THE EGG-PRODUCERS.

Start right by saving only the eggs from your very best hens for incubating. You should put apart to themselves the best and most prolific layers, that have the size and the vigor to produce good-sized eggs and plenty of them. Such hens will add value to your flock by giving of their prolific nature to their chicks. If you will pay special attention to these points of selecting the best at every stage of the game, you will, in a few years be rid of all non-producing, unprofitable fowls. The

Money in Squabs.

A Practical Treatise on Raising Squabs for Profit.



The most interesting and the only practical book published on raising squabs for market, is our book entitled "Money in Squabs." This book has had a most generous sale during the past year, greatly exceeding the expectations of the publishers, and is, without doubt, the only reliable publication of its kind. "Money in Squabs" treats of every topic pertaining to pigeon raising, and is illustrated with the most modern and practical ideas for housing and breeding pigeons on a large as

well as a small scale. You will surely be interested in the industry after reading this book, and the information gained will be worth many times its cost to you. "Money in Squabs" contains chapters on the following interesting subjects:

Introductory, Breeding Houses, Breeding Stock, Distinguishing Sex, Food and Feeding, Water, Salt, Nesting Material, Manure, Breeding and Management, Dressing Squabs for Market, Shipping and Selling, Diseases of Pigeons—Canker, Cholera, Egg Bound, Enteritis, Going Light, Roup, Small Pox, Sudden Colds, Wing Disease, Worms—and Douglass Mixture. Some of the illustrations are: Full-page drawings of Homers, Runts, Dragoons, and Duchesse Pigeons, Plans of Single, Double, and Continuous Houses for Breeding Squabs, Arrangement of Avaries to a Garret Room and to a Barn, Plans for Building a House in the Back Yard, Plans of Nests, Perches, Mating Boxes, Bath Tubs, Drinking-Fountains, Salt-cat and Grit Boxes, etc., etc. This book is thoroughly practical, reliable, and of untold value to all who are interested in raising pigeons, for profit or pleasure. **Price, 50 Cents.**

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most unwise proceeding is to kill in the spring and during the summer months the most thrifty and largest of the young stock, for they will always prove to be the best; the same rule applies in the fall and winter. Never kill the hen that sheds early and quickly and that brightens up in face and comb to lay; these are your money-makers.

EGGS FOR HATCHING.

The shape of the egg has no influence for or against the quality or gender of the chick. Some hens lay long eggs, some short eggs, some round eggs; each hen lays an egg peculiar to itself. If you will save all the eggs from one hen, you will see that they are all of about the same size, shape, and color. In selecting eggs for hatching it is best to have those that are generous in size, not over-large ones for the breed, nor those that are under-size for the breed. Select the average normal size for the breed, and use them for hatching, sending to market all the bad-shaped ones as well as the under-sized ones.

Hens that have the habit of laying eggs that are large for the breed usually do not produce as many as others that lay continually eggs of the normal size, and the hens that lay eggs much too small for the breed should be weeded out as producers, for while their eggs will sell by the dozen at as good a price as the larger eggs, they are not a credit to your yards, and if such are used for the producers you will build a lot of hens that will lay all small eggs. All these are inherent qualities that descend from parent to offspring, and if your aim is to improve see to all these matters of value as you go along.

HOW TO FEED THE CHICKS.

The manner of feeding is quite as important as the kind of food. You should be regular in this; even as regular as is the clock should you be in feeding your chicks. The first meal should be given them at daybreak, and after that they should be fed a little every two or three hours till night comes. Fresh water should always be at hand and they should be kept clean, dry, warm, and comfortable at all times.

WHAT TO FEED.

When the chick is twenty-four hours old it should have its first meal of hard-boiled eggs mashed very fine, shell and all, mixed with bread-crumbs, half of each, for the first three days. Alternate this with bread soaked in milk and squeezed perfectly dry before feeding; after the first week feed the soaked bread as dry as you can squeeze it, small broken oatmeal, cracked wheat, cracked corn, both very small, and a little millet seed; or, if you prefer, buy one of the chick foods that are sold by the pound and feed it. It is better not to feed any mash or mixed food unless you know all about it. A good plan is to mix one part each bran, cornmeal, and middlings with just a little flour. Mix this into a batter with some clean eggs that will not hatch and some milk, bake this as you would cornbread, and when cold crumble it for the chicks: it is better than mash. Always provide plenty of sand or grit of some kind for them, and keep clean water before them at all times. If all these little attentions are given them they should grow fast and do well; whenever they do badly depend upon it they are not properly cared for.

BROODER CHICKS.

The feeding of young chicks bothers many persons and causes a large percentage of mortality. A good food for the first day is rolled oats every two hours, or when the chicks appear hungry. Then for two days use any first-class chick meal. To this mash should be added, and well mixed with it, a liberal handful of chick-size grit. This will be the greatest aid to digestion and will prevent, in a great degree if not entirely, bowel trouble, the most prevalent ailment of artificially brooded chicks. After two days whole wheat and small-sized or sifted cracked corn may be given two or three times daily, after feeding the morning mash. Green food, also, in the shape of small cabbage, may be given every day after the third day. Water should be kept by them constantly from the minute they are placed in the brooder. It should be clean and kept so, and at a temperature of the house and not of the hover.

The heat in the hover should be reduced as rapidly as possible after the first week, the degree of heat to be determined by the chicks themselves. If they crowd at night they need more heat; if they sleep well separated they are all right. Too much heat for too long a time will do them as much harm as overfeeding. As chicks start out in life strong, robust, and active, we must try to keep them so and make them as hardy as possible.

Exercise is absolutely necessary in order to raise healthy chickens. They can not exercise too much; in fact, they should be kept busy from morning until night. They will seek the hover when they feel the need of heat, and will or should continue to scratch the rest of the time. Always give them something to scratch for. Scatter small grain in deep litter indoors, or scatter it in their outdoor runs. If they hunt and scratch and find something they will be encouraged to hunt again.

The worst ailment which we must fight is what is known as bowel trouble. Over-feeding and bowel trouble will reduce the percentage of your brooder chicks so alarmingly that the bravest and most enthusiastic amateur will give up the artificial method utterly discouraged. Bowel trouble comes from indigestion and is easily controlled and cured by mixing plenty of grit in the soft mash or food other than grain. Mixed in the food the chicks are compelled to eat it, and thus the proper substance is supplied to their small gizzards, which virtually grind up the food.

No matter whether under hens or in the brooder chicks must be fed the same, but when in the brooder you must look out for the heat of the brooder so that it may not get either too warm or too cold.

Buff Wyandottes.

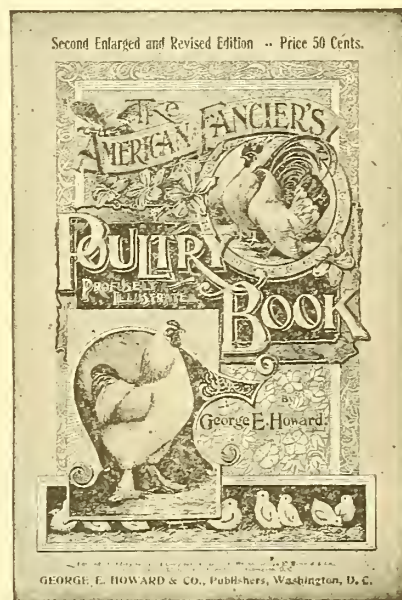
There is a disposition for improvement in this variety among those who handle them. One great fault for years was the small size of the females, specially in pullets, and another was that so few good cock-birds and hens came to the show-room. They did not seem to stand full development. Just why this should be we can not say, but presume it was lack of settled qualities in strains, that comes as the result of having depended upon quantity produced rather than quality of mating. In no other fowl does so much depend

upon quality as in buff-colored fowls. This color must be established through a long line of ancestors that had good color and other good qualities as well.

Quite a few of our best fanciers who are interested in this variety have succeeded in having a set type and a true color in their strain. All this shows improvement along lines that will count to the benefit of this variety. Nothing brings improvement faster than a settled rule for type and color well followed for years in our matings, and well concerted action upon the part of all breeders of a variety would push them forward much faster than is possible while each is going on his own separate lines. In union there is strength. So would it be if all breeds and varieties were guided along the same lines for improvement.

The Mandarin Duck is one of the most beautiful birds among water fowls. It is sometimes called the "Fan-winged" duck, from the peculiar shape of a portion of its wings, which rises over the back in the shape of a lady's fan. The head has a crest, falling gracefully back on the neck. The color of the body-plumage is very fine and uniform in this curious variety—considered in China the prettiest of the duck class.

The American Fancier's Poultry Book.



"The American Fancier's Poultry Book" is one of the best books we have ever offered to the readers of THE FEATHER. It is a grand book, and has been praised by all who have seen it. It is a practical book, and should be in the home of each and every lover of poultry. No matter how much you may know about poultry, you will be certain to find something new in its pages. To the novice nothing better could possibly be recommended. This great book contains illustrated chapters on The Poultry Industry, General Management, The Egg, Incubation, The Chick, Recipes for Feeding, Feeding for Eggs, House Building, Keeping Eggs, Caponizing, Diseases, The Standard Breeds of Poultry. The American Class, Asiatic Class, Mediterranean Class, Polish Class, Hamburg Class, French Class, English Class, Game and Game Bantam Class, Bantam Class—Other Than Game, Miscellaneous Class, Turkeys, Ducks, Geese, and Swans. Price, 50 Cents.

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TRUE BUFF COLOR

Of Fowls and Birds, Not Like the Lifeless Color of Paint, Printer's Ink, or Dye Color.

By T. F. McGREW.

If the printer might portray on paper the rich golden color of the duckling just from the shell, or if the painter could mix on his palette that shade of paint that would reflect the rays of the setting sun upon the canvas in true elegance, or if the dye-shop could imitate the rich golden color that is shown upon the birds of the Orient, then might we be in position to place before every man, woman, and child in the whole land just what is referred to when we print in the Standard, "rich, golden buff," but just so far short as the artist comes of the true color, that much farther will the printer be away, and so long as this is true there is the gravest danger of setting up any color-plate of any kind as an *absolute rule* for judging color.

The reason for this is quite plain, when once considered, that each hour, day, and year the best executed work, whether printed, painted, or dye loses its color, while each season's work brings us better color upon the fowl than was seen the year before. At the same time color-plates can be great educators in many ways, and as teachers should be made use of as much as possible. Every means at hand should be used to educate the fancy and benefit the novice. Their education should be sought above all other considerations. No one should falter in this, for if we build the foundation right we shall have but little trouble at the finish, but we should consider long and well before we establish any absolute rule, that we may stumble over within a few months to the disadvantage of all.

Thirty years of study have established in my mind the uncertainty of the attempt to form a set rule for buff color.

It is an absolute fact that the breeder comes to the show each year positively in favor of that shade of buff that his most beautiful specimen is clothed in at that time. The love for our own guides us all to this every time, no one can avoid it. No matter how it may have been last winter your own best production has so gained your favor as to have completely carried you away in its favor. In the past we have seen that shade grade from snuff-brown to lemon-yellow and the possessor of each contending that the color of his special specimen was the only true color.

At the first Cochon Club Show, at Buffalo, many years ago, the members were rent asunder by the result of the judging. Men contended that specimens as deep in color almost as our darkest Rhode Island Red pullets should win, male birds of the darkest cinnamon color were declared to be of the proper shade, there was the West against the East and not one prize went to the East. Then the best Cochon form and color belonged in the West. The color that triumphed at that time at the Club Show at Buffalo was several shades deeper or darker in color than the shade that has the preference at this time. So one may judge of that which pleased at that time, and what we call the true shade to-day was classed then as too light entirely. So have we changed year after year since 1869.

There is one fact connected with the buff color that all can agree upon, and that is, that the color, no matter of what shade, must be even and free from shafting or mealy appearance. Now we can all avoid this fault, both judge and jury, for we can one and all tell whether the color is even or not, we can also tell if it has a mealy appearance, which means a thin or mixey color. True buff must be so dense and closely laid on as to fill the entire web of the feather and shut out any other color. Mealliness of the feather is when the light color shows through. We often see the color so thin that it looks barred, the light and dark shades run like bars across the feathers. There is a disposition to foster this kind of color and we often see it win in the show-pen, and this leads some to believe that this is the true shade of buff. Often a bird of this color wins because he has grand and beautiful shape and condition, but no matter if such does win that does not establish the fact that such is the proper color any more than for a grand shaped white bird to win that has not the best of color.

The facts are that no matter what may win a prize people are too apt to consider only color, and this leads one astray. True, even buff will look beautiful of several shades, but of whatever shade, it must be perfectly even from head to tail and look even throughout. Within this limit of shades of color we must not consider anything lighter in shade than lemon, nor must we approach cinnamon-buff. At all times we should aim for the rich color of gold

coin, not the pale or brass-colored gold, but the rich, golden hue most usual with our American gold, and then we must add to this the beauty that the living animal influence gives to the shade of color.

There is no color that is so much influenced by the rays of light that may strike it as is buff. Unless it be the Barred Plymouth Rock, rays of light will change the effect of color in any fowl in an instant. You may look at a fowl in one position and when the light shifts and becomes stronger or weaker, or more or less direct it changes the color so much that we would scarcely believe it the same. All these things we must learn to consider if we hope to be an expert in mating or judging. All is a matter of knowledge of color without which we are quite apt to make a mistake in selecting color, but with it all we should always be able to have one even shade of color free from mealiness or shafting.

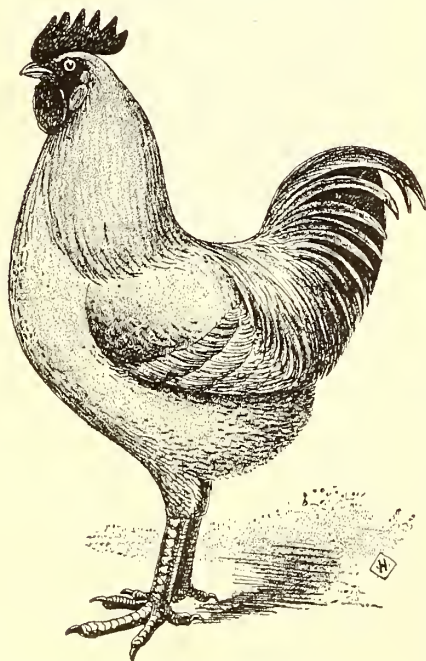
Balanced Rations.

The balanced ration is considerably like the man who selected a sample of soil from each corner of his hundred-acre farm and sent it to be analyzed, and was told to use four kinds of fertilizer. Not liking this expense he took a sample from the middle of the farm and sent that and the Station told him to mix the four kinds together. It is the same with the balanced ration—they keep mixing all together. So much depends on the fowls, the locality, and the surroundings, that any set rule will not work out. We may select as per the laws of analysis, and feed the most excellent egg-producing ration, have but few eggs in return and blame it on the ration, that can not be wrong according to science. This shows plainly that it takes more than simply two component parts, as shown by analysis.

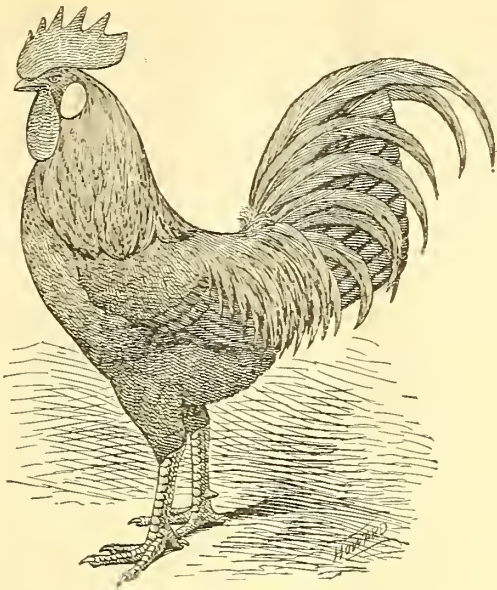
The truly balanced ration is the one that will produce the desired egg-production, or the quick growth for the broiler. The same food and care will apparently do better with one than with another, and this leads us to the conclusion that other causes join to make the better success with one than with another, and this is proper care or management. It is quite as important that we should know how to feed, how much to feed, and just when to feed it, as it is to know what to feed. The balanced ration has its value but over and above all this is the knowledge of its proper use.

There is nothing so helpful as good, hard-earned experience that comes as the reward of well-directed determination to succeed. This is what balances the well-prepared ration; this is what brings the best results; this is what brings success in the poultry business. All the rations on earth will not assure the desired results. The ration that is properly prepared is of advantage to all, at the same time, it is quite possible to partially fail when using it. Others may have wonderful success under what is claimed to be the same method, but as one housewife will make beautiful bread, cakes, and pies, and another will fail in the use of the same material and method, the same kind of management and care brings good results in both cases, and the results compel us to admit that at least half the success must be credited to the management.

The proper use of meat or beef-scrap



BUFF PLYMOUTH ROCK MALE.



BUFF LEGHORN MALE.

may be of vast benefit to the growing chick or the laying hen, but if it is not properly used the combs of the growing chicks may be ruined and the usefulness of the hen destroyed, all this coming from a food that can be made most valuable. It is also possible to destroy the flavor of the broiler or the egg by the use of poor quality, ill-flavored meat-meal or scrap. Quality of the foods used is of equal importance with all the rest. It is a waste of money and the vitality of the fowl to feed poor quality or light-weight oats that are more hull than oats. Better, by far, that good quality hulled oats should be used, for this gives the full value of the grain and saves the fowl the labor of grinding the husk.

All of these factors are of vast importance in the handling of fowls whether for eggs, broilers, exhibition fowls, or market poultry. Each and all of these come under the one general head for success, and that is the proper ration for the purpose desired, properly fed, and to this must be added good judgment applied to their culture. When we see page after page printed as to the chemical analysis of foods, consider these well and add to their use the judgment acquired by experience and you will find that you have discovered the only true method of actual application of a balanced ration, for without this good care and judgment you may find that no better results came than before you used them; if so, don't blame the ration but rather the out-of-balance method that applies them.

The Results of Incubation.

The hatching results have proven to be very interesting. In some instances Leghorn eggs that have shown a very high per cent of fertility at five or ten days failed to produce one-third from those eggs that had shown the high fertility. Those who reported these facts utterly failed to find any good cause for the failure. Later hatches from the same fowls did produce seventy-five to eighty chicks from one hundred eggs. This would show that it was not the machine, or such good results would hardly come from the same hens' eggs

in the same machine. Another party got about 300 chicks from over one thousand eggs, while another man only twenty miles from him had sixty-eight chicks from seventy-five eggs. It is such queer returns as these that put one out on all calculations.

One party who has Cochins did not get one single chick from all eggs set from three matings of Buff Cochins up to May tenth, while one mating of Partridge Cochins in the next run produced over fifty per cent. Another party who keeps Cochins had seventeen or eighteen chicks from 150 eggs, two pens of Wyandottes, no chicks prior to May first, while the eggs from a pen of Wyandottes next to them produced over seventy-five per cent.

This would remove much of the belief that the weather had to do with the results. If this would influence one pen or more why not? If the male was at fault, why was it better later on? All these conditions and facts make one falter in their march for information. Out of seventeen pens of fowls in one instance the best results came from a pen of nine Wyandotte females with which were run two males day and day about. Nearly every egg from this pen hatched, while the eggs from five other pens did not produce to exceed one-third. If we may take this as a pointer the changing of males may be an important point for consideration.

From the far south in Georgia comes the word from one man that he never had any trouble all spring from a pen of fowls bought last fall in the North and sent down, at the same time some of the very same fowls in the yards where his came from did not produce one-half as well up in New York State as did their companions that went south. Another feature that has surprised us is the case of one man who has White Plymouth Rocks not being able to get to exceed a dozen chicks from many hundreds of eggs prior to May first, and he had three different male birds. None of these fowls were over-fat and they laid well all the time.

With all these returns to consider one is at a loss to know where to place the blame and what to do to remedy it in the future. If three male birds all fail then what must we do? Up to this

time we have no word as to eggs set from these yards after May tenth. If they produce well after May tenth from these same male birds what shall we conclude? In this instance these fowls have a run of over one-half acre, plenty of house-room, and straw to hunt and dig in all the time while in the houses. Here is a stumper for all theorists to consider.

One might expect Cochin eggs to turn out a small per cent, but when it comes to Leghorns', Plymouth Rocks', Wyandottes', and all one is worried as to the cause. One party who bought four settings of eggs last season only got a few chicks, and from these same chicks this spring he has a few over eighty chicks from nine or ten hens set. If this can be called luck, all well and good, but the facts are that the fowls that did so well were shut up in a yard by themselves and their eggs produced better than did the eggs from hens that had the run of the farm. Here is another stumper for solution. It is a hard question to answer for it has so many sides for consideration.

Contented Ways.

Those who are contented with the methods of "Let well enough alone," are usually "tail-enders" in the parlance of the race-track—always behind can be attributed to them in the fullest sense, for they seldom get up to the being-considered point much less to a position among the better grades. If we do not advance we must retard, for it is quite as impossible for the tide of quality to rest at a given point as for the tide of the ocean to be still. If contented with our lot we may be happy within ourselves, but so soon as we push out into the world of improvement we find that the keen eye of progress has gone so far beyond us as to leave us amongst the have-beens.

Those of the contented-way faction have another failing that belongs to this group of short-comings and that is the apparent inability to see poor quality when present. When you hear the exhibitor say to the judge, "Wish you would come and show me why my bird did not get a place," there are strong grounds for the suspicion that contentment rules with him rather than progression. There may be a good reason for asking why first is better than second or third than fourth or fifth, but to ask why a specimen is unplaced in a class of eight or ten gives room to suppose that the owner is backward in the art of selecting quality.

We may falter between the superiority of the two or three best in a class, for this may often be a matter of a slight preference, but we can not give any plausible excuse for being so far behind as not to know why a specimen is inferior to five or six that are placed over it. This shows an actual lack of standard demands. No one who studies the description of the breed he handles can go so far astray as this. On little points we may disagree, but nothing but contentment with our own can be accepted as the cause of such short-comings as we cite above. This same style of contentment is seen in every walk of life, and side by side with it go those who know it all so positively as to be equally unhappy, for neither of these can advance till they shift to the ways of progression.



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JULY, 1902.

The Neglected Season.

As the sun is just at present the hot days of summer-time are engaging our attention, and the vast majority of the fraternity is trying to keep cool, and at the same time grow chickens. It is the proper thing to keep cool if you can consistently do so without neglecting the growing stock. So numerous are the "neglects" at this season that when the time comes to make a reckoning the losses are considerable. It is hardly necessary to say that right now the chicks need the best of care and attention. They need it badly to grow the size and plumage necessary to make you feel proud of them when the show season rolls around.

The Coming Meeting.

We have absolutely declined heretofore to take part in the discussion of the affairs of the American Poultry Association meetings at Buffalo and Charleston for various reasons. One of those reasons is that we were not present and did not feel fully prepared to wade into the subject on hearsay. Another of the reasons is that if there were less newspaper talk on the subject the better off would the association be. Some of the bitterest and most persistent talkers in print are not members of the association, nor have any ideas of becoming attached to same. They sing constantly of what should be done, but do so little themselves that they have become endowed with the spirit of nothingness, and are general nuisances to the community. The American Poultry Association should not be an object of attack, but rather one to be helped along and en-

couraged. Some of our luminous stars in poultry journalism manifest a great display of ignorance when they assail the association as they do. It would be better by far for them to affiliate as members and do their work in the sessions of the association. The coming meeting at Hagerstown promises to be well attended and interesting to the fraternity in general. Indeed, the prospects are for lively times and plenty of them when the meeting is called to order at its next session.

A Stunning Combination.

During the visit of Mr. Clarence C. DePuy, editor and publisher of the *American Poultry Advocate*, to the Capital City a few days ago, we were pleased to make arrangements for clubbing his publication and THE FEATHER for the coming year. The *American Poultry Advocate* is a paper that is devoted almost exclusively to the practical side of the poultry business, giving instructions on the care and management of poultry, pigeons, and pet stock, and is a splendid paper for the full subscription price. As a combination with THE FEATHER it will be fully appreciated by our readers. THE FEATHER will continue its present high standard, and many feasts are in store for our readers during the coming year. We will continue indefinitely the beautiful colored illustrations on our cover-page each month, besides adding many new and attractive illustrations on the inside. By the arrangement we have made you will be enabled to get about nine hundred pages of live, up-to-date reading matter on the poultry subject, twelve beautiful pictures of poultry in natural colors, besides hundreds of other illustrations in black and white for only 35 cents for both papers for one whole year. Now, this tempting and surprising offer is made with the full knowledge that thousands will avail themselves of it, and we are gratified to know that we are enabled to offer it to our patrons. These are progressive times—and we always like to be in the front of the procession.

Making a Success.

We are satisfied that a great many people are making a success of the poultry business. These people are the ones who have applied themselves to the subject and have given due consideration to every detail of the business. So very many of the failures are attributable to entire ignorance of the poultry subject; in fact, ninety-nine per cent of the failures are traceable to ignorance alone. Once we knew a party who estimated the wealth to be had in poultry raising on the policy of one hen laying a hundred eggs a year; one hundred hens would then lay a hundred times as many, and a thousand, a thousand times as many, and so on until it figured out a gold-mine in a couple of years. Experience has taught us that poultry-raising is one of the hardest propositions one cares to meet. It is like most any other business proposition, it must be learned thoroughly before it will net just returns. The hen is a dream. The owners or breeders must look upon them more as nightmares at the start or else they will fall very short of their calculations in the end. Begin at the bottom and learn the little "doings" of Mistress Biddie before you fall head over heels in love with her. She is an amiable creature but she must be understood to make her at all profitable to you, or something to be proud of. Begin your operations

carefully and gradually grow up with the business, for the foundation must be strong to withstand the storm that may come. It pays to raise poultry; but all people do not know how to make it pay.

Loss in Weight.

The West Virginia Agricultural Experiment Station publishes the following table showing loss in weight of eggs during incubation: After placing the eggs upon the trays ready for the incubator set the trays upon a pair of scales reading to ounces and note the total weight of the eggs and trays. (The trays should be thoroughly dry.) After a few days weigh again. Subtract this from the first weight. This will give the actual loss in weight of the eggs.

Example.—Suppose that you have 208 eggs on the trays; that the first weight with trays is 24 pounds 2 ounces; and that on the sixth day the weight is 23 pounds 6 ounces. Then the loss in weight is 12 ounces. Now look in the table for the loss in weight of 100 eggs for six days. This is 10 ounces. Ten ounces multiplied by 2.08 gives 20.8 ounces, which is the calculated loss for 208 eggs for six days. Therefore the eggs have not been losing weight as rapidly as they should, and the eggs should be given more ventilation or the incubator should be removed to a drier location. (It is assumed that the eggs are kept uniformly at the proper temperature.) After the eggs have been tested for the infertile ones weigh again and proceed as before.

RULES.—If the eggs have LOST TOO MUCH WEIGHT give more moisture, or less ventilation, but in reducing ventilation great care should be used as pure air in the egg-chamber is absolutely necessary.

If the eggs have NOT LOST ENOUGH WEIGHT open the ventilators, or place the incubator in a drier place.

Table showing normal loss in weight of 100 eggs in ounces for the first nineteen days of incubation:

Days.	Loss in Ounces.
1.....	1.65
2.....	3.31
3.....	4.96
4.....	6.62
5.....	8.28
6.....	10.00
7.....	11.72
8.....	13.44
9.....	15.16
10.....	16.88
11.....	18.60
12.....	20.33
13.....	22.10
14.....	23.88
15.....	25.66
16.....	27.44
17.....	29.21
18.....	30.99
19.....	32.77

Testimonials.

"THE FEATHER is all right."—J. F. SULTZBACK, York, Pa.

"Am getting many inquiries from my ad in THE FEATHER."—A. A. GROFF, Lederachville, Pa.

"Trade has been good—better than ever before. THE FEATHER is all right."—C. H. WELLES, Stratford, Conn.

"Keep my ad running in THE FEATHER, as it is doing me lots of good, and I do not want it left out a month."—GEO. WOLF, Seneca Falls, N. Y.

"I received more money from my ad in your paper than from any other in which I advertise. I send birds to Florida."—N. S. GRAYBILL, Richfield, Pa.

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Are offering great Bargains in Breeding Stock of S. C. White Leghorns, S. C. Black Minorcas, Barred Plymouth Rocks, White Plymouth Rocks, White Wyandottes, and Light Brahmas. 3,000 chicks now growing for fall trade.

ELM POULTRY YARDS,

Box F, Hartford, Conn.

"I am pleased to say that I have advertised my Wyandottes in several journals since '96, and find THE FEATHER one of the very best on record."—CHAS. NIXON, Washington, N. J.

"That ad was a stunner. Sold \$63 worth of hens, \$7 worth of White Fans, and am hearing from lots of others who would buy if I had more stock to sell."—E. A. STANDISH, Andover, Conn.

"THE FEATHER is a money-maker for honest advertisers. If any one doubts this, all we ask is for them to try even a small ad and be convinced."—A. J. BARGAHISER, Rockford, Ohio.

"Have had responses through THE FEATHER from Maine to California, and Canada to Central America, and have made several sales as a result. Am well pleased."—H. B. ROBINSON, Greenville, Miss.

"THE FEATHER is O. K., and as fine a poultry journal as there is, but you must let us hear more on the finest breed of poultry on earth, and that is the Light Brahma."—H. C. BARCLAY, Beaver, Pa.

"My ad in your paper is giving me good returns. I have made several sales from it already, and believe when it has been before your readers longer and they become acquainted with my way of doing business it will be a winner for me."—GEO. C. SALMON, Port Dickinson, N. Y.

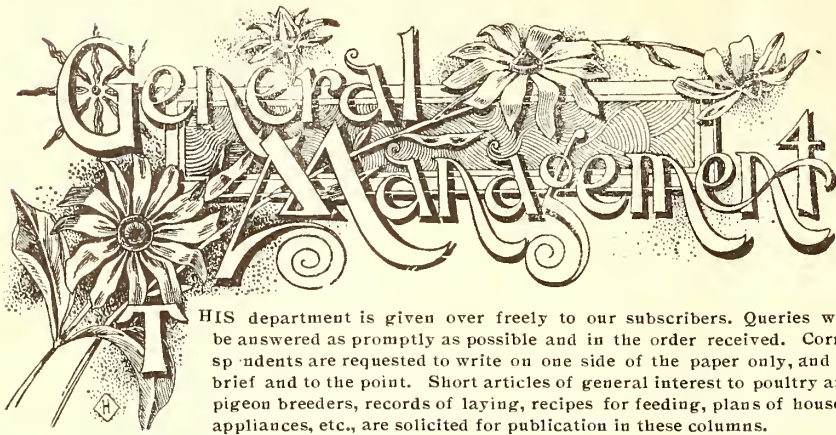
"My classified ad in THE FEATHER has brought me more orders than any display I carry in other papers, so I send you copy for one inch for three months."—HUTCHINSON SOUTHGATE, Good Ground, N. Y.

"My ads were placed too late in the season, but am pleased with results, and still get letters mentioning THE FEATHER, and expect a good sale of some stock to one party who is likely to become a yearly customer."—G. DAVIS NEAVITT, Centreville, Md.

"I believe my ad with you has run out and I can not afford to drop it now, so I herewith enclose money-order for which you will please insert ad as per enclosure for three months under head of classified ads. It is only a small one, but brings big results."—C. E. BIRELY, Ladiesburg, Md.

"The results from our ad (it being the first in your paper) were far above our expectations, and, what is gratifying to us, every one who received stock from us was well pleased, which testimonials show. Thank you for prompt and fair treatment, and our best wishes to THE FEATHER."—SCHRAMM & SKEHAN, Williamsport, Pa.

"Your letter of recent date was received, and I agree with you that I don't want to miss a single number of THE FEATHER. . . . Will state that I have been taking THE FEATHER ever since it was published, and have had copies of all the different poultry and pigeon papers published in this country, and will frankly state that THE FEATHER is my favorite of them all."—A. F. LEACOCK, St. Louis, Mo.



THIS department is given over freely to our subscribers. Queries will be answered as promptly as possible and in the order received. Correspondents are requested to write on one side of the paper only, and be brief and to the point. Short articles of general interest to poultry and pigeon breeders, records of laying, recipes for feeding, plans of houses, appliances, etc., are solicited for publication in these columns.

The Poultry Trade.

We read a great deal in our papers of the enormous profit to be made by fattening poultry for the English markets. Only the other day reports of the government shipment were received and it is stated that the prices realized in Liverpool are equal to \$1.31 net at Montreal.

There is no doubt that good birds, properly fattened and dressed, if put upon the market in first-class shape will return a fair profit to the shipper. But we do not think it would be wise for every individual farmer to ship his own birds. This business to our minds should be run in the same way as the dairy business. Have all birds fattened under one system, dressed and packed under the direction of a company or firm. We must establish uniformity in quality or we can not make the trade a success.

During last spring the manager of the Canadian Produce Company, Dr. Boulibee, visited England in the interests of this company. This was during the heart of the frozen poultry season. While there he sold a large quantity of frozen chickens which he took over with him. During his stay in England he visited several of the leading markets and gathered much information along the requirements of these markets. Dr. Boulibee in an interview on his return, says:

"The prices reported as paid in England are mostly fairy tales. This fallacy as to price and size of birds desired is due to two mistaken ideas that are easily fallen into; namely, taking the English-raised, fresh-killed bird as a standard and guide for imported frozen birds; the other of judging the wholesale price of any considerable quantity to be the same as that for a few dozen sold retail. Among fresh-killed English birds there is a certain limited demand for large fattened birds. At retail these bring 16 to 18 cents per pound, but this demand is very limited and is fully supplied and can only be supplied by fresh-killed English birds. These weigh from four pounds upward and are bought by the wealthiest class only, to whom money is no object and who will pay any price asked for what they want but will not buy anything else at any price, and in England, as here, this class is a very small proportion, and they are easily supplied.

"There is, however, an enormous number of the well-to-do class who, with the hotels and restaurants, want a medium-sized bird, one that will make,

we will say, a meal for from two to five people, that is a bird in good condition weighing from 2½ to 4 pounds, and for this class of birds there is an unlimited demand. It stands to reason that the majority of people can not, or do not care to spend \$1.50 to \$2 on one chicken for a meal, but they like chicken, and if in reach of their purses, say from 45 to 75 cents each, they will live on them. At these prices chicken also competes with other meats.

"Now the price procured at wholesale in London is about 14 cents per pound, or a little more for first-class chicken in good condition up to four pounds in weight. The price in Manchester or Liverpool is from one to two cents per pound less. You may send a four-to-eight-pound chicken to England, but it will sell very slowly; if you send a few only they may bring as much per pound as the smaller weights, if you send any quantity they will not. Now these prices are only for a short season. January to May, with March the best month and January and May uncertain, as they run the English poultry season close and may be poor months. Don't under any circumstances ever be induced to ship for Christmas trade, as that is the worst season in the year for anything but turkeys."

For the present we think the fattening and shipping of poultry should be confined to central stations.

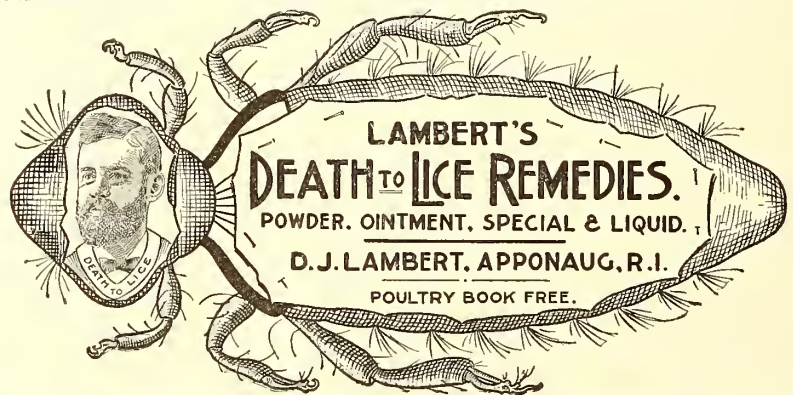
In the meantime there can be an enormous increase in the number of birds which might be prepared for our own local markets. Thousands of birds might be sold at a good profit if properly fattened, but the most of what is offered is a disgrace. There is one advantage in selling on our own market and that is there is no risk, we know what we can get and it almost equals the best prices in England.—*Maritime Farmer.*

Partridge Wyandottes.

This new variety has had its boom and flurry and has settled back into the hands of the fancier who will now develop it into a true Wyandotte clothed in the rich brown or red and black of the Partridge Cochin. This will some day be the true and beautiful fowl that it should be. As it is led into these two lines it should be led away from its greatest fault—the producing of small eggs. This comes from two influences that must be trained out of them if we hope to have the most valuable fowl. The cross of the Hamburg had much to do with this aided by the Cochin whose influence is for a rather small egg. The two have had their influence over the size of the egg in many of the strains. This will be hard to drive out and can only be done after years of care in selecting and mating for this result.

There is a strain of Partridge Wyandottes in the hands of a well-informed breeder that is simply the result of a cross of Golden Laced Wyandottes and Partridge Cochin females, and with this same Golden Laced Wyandotte cross have been mated some Partridge Wyandotte hens that have shown their ability to grow fine-colored plumage and to produce large-sized eggs and yellow shanks. This union has produced good Wyandotte shape, almost too much size, good color and marking, and the females of this strain have shown a disposition to lay a larger egg than is laid by the Partridge Wyandotte as they average. In support of this the owner of this strain has had eggs from all the

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other prominent strains so as to compare them, and in this way the average size of their eggs has been determined, and an effort to overcome this is fully decided upon.

As yet no one has shown ability to produce a set type or form in this variety, so few of them look alike. In the unusually large class at Boston there were scarcely three alike in type, and the cockerel that won first was a Hamburg with a short tail, the winning cockerel at New York was fine in shape and color, small in size, fine in comb; the winning hen at Boston a wonder the pullet that had the blue was not a Wyandotte at all. These facts are cited simply to show the unfinished condition of the variety. There is a great future ahead for them, and some one will develop a strain that will prove to be a surprise to all. We note that quite a number of them are imported from time to time. These imported ones lack the color we demand, the same as do the Partridge Cochins and the Golden Laced Wyandottes that come from the other side. If it were not that people feel a personal injury is done by honest criticism greater advancement could be had in all breeds. Because a man has the best shown does not prove they are complete by any means.

Calculate the Cost.

The unfortunate fact that so many go into business without counting the cost is the cause of many failures in the poultry business. Entirely too many do not calculate the continual vigilance that must be given to successful poultry culture. This is the cost that must be calculated in this business above all others, for failure is assured in advance without it. No matter what else you may have or how much of it, whether money or lands, failure is sure to follow unless the closest attention of some one who is competent be given to the work.

Those who imagine that a poultry plant, whether large or small, will run itself are very poorly informed, for nothing can be much farther from the fact. Regular attention and well-directed attention must be given or the venture will fail of good results. Nothing but disappointment ever follows neglect of our fowls; this is proven beyond all peradventure. No success carries unless the best attention be given the fowls, their feeding, and their care. Bear this in mind all the time, and when you are disappointed with results obtained see who is to blame.

For Ordinary Farmers.

The ordinary farmer who reads the elaborate directions for the care and feeding of poultry which often appear in print may be excused if he shows symptoms of disgust. For he is a busy man, his wife is a busy woman, and help indoors and out is busy, too. He has no time for all this "fuss and feathers."

Nor will so much of it pay him. He

can not afford to spend so much time and money, to the neglect of other important affairs, in caring for his poultry. The returns do not and will not justify it on the ordinary well-conducted farm.

This will provoke dissenting opinions from many, but it is a fact. But it is equally a fact that attention to the chickens will pay.

How to get the most from the flock with the least labor is the problem for the farmer. One way is to save labor by spending a little time in making things convenient for the laborer.

Fix the house so that it is dry and as warm as possible. If poultry must be confined put enough hens in it—not too many. Have the roosts so arranged that they will not become foul from droppings. Make them so that they can be removed easily, or so that they can be painted frequently with lice-killers with little trouble.

Provide a place for the feed. It is not necessary for the ordinary farmer to cook mashers every morning or warm corn every evening for his chickens. Just give them enough of some kind of grain, wheat, corn, or oats, changing occasionally, and let it go at that. Waste vegetables are all right, green bone is good to increase egg-production. No poultry-farmer should be without them, even the average farmer may find them profitable. If he can't have them he can worry along without them.

If the chickens are all kept around the barn keep something handy for them to eat. Barns are usually comfortable places for chickens, and if fed enough they will respond. The trouble is that they are expected to find their own living around the barn and they can't do it.

Never mind about cleaning out the house every day. Keep it as clean as possible, but no need to worry about it every day.

Remember that poultry manure ranks high as a fertilizer. Try it once and see. A little time spent in saving it will be richly rewarded. Realization of the value of poultry manure will usually keep the houses clean enough on the average farm.

No use to feed so many hens or any cockerels. If they lay well a moderate number will give enough eggs; if they don't more will not help much, and the smaller the number kept together the better they will do.

A flock of the same variety is usually easier to care for than a mixed flock. Grade to a certain kind, and not the nervous, delicate varieties. The general-purpose kinds, such as Rocks or Wyandottes, are usually best for average circumstances and ordinary care. Not much use to fool with a sick chicken on the farm. Off with its head, and out of sight with the carcass. Clear under ground is best.

Reasonable care and abundant feed will usually bring the desired result in eggs. Don't think because you can't have fancy poultry or can't care for it

Valley Farm, White and Barred Rocks, Houdans, Faverolles.

according to the fancier's standard you must be without eggs. Do something for the hens and they will return the favor.—*National Stockman and Farmer.*

The Maine State Poultry and Pet Stock Association will hold its second annual show at Lewiston, Me., Dec. 16-19, 1902. Even at this early date a large number of special premiums have been offered by public-spirited men, and the indications are now that the next show will be even more successful than the last. Judges already secured are: A. C. Hawkins, D. J. Lambert, W. B. Atherton, and Geo. P. Coffin. A. L. Merrill, Sec'y, Auburn, Me.

We are in receipt of the neat little catalogue of the American Single Comb Brown Leghorn Club. It contains the Constitution and By-Laws of the club, of course, with list of officers and members, but what makes it especially attractive are several articles of real value to breeders of this variety, by various members. All our readers, those who know the S. C. Brown Leghorns and those who wish to know them, should send for a copy to the secretary, C. M. Davidson, Morgan Park, Ill.

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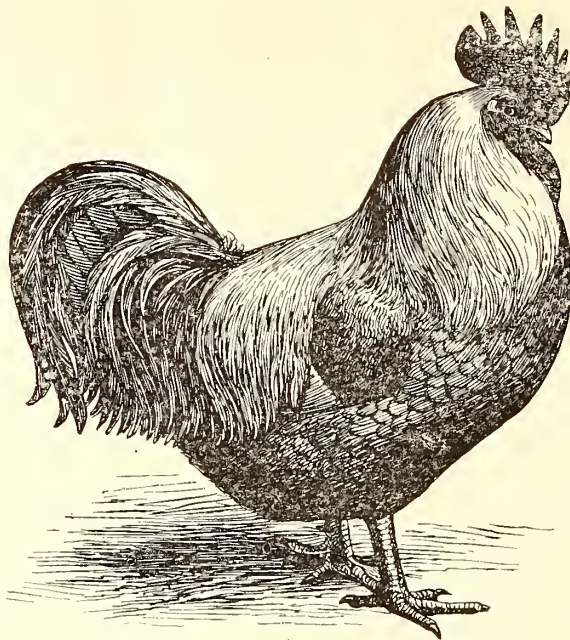
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The DORKING FOWL IN AMERICA.

Though knowing full well my incompetency to do justice to a subject of so great importance and magnitude, I am ever ready and anxious at every opportunity to tell of the good qualities of my favorite fowl, the grand old Dorking, and, therefore, it is with very great pleasure and satisfaction that I have accepted the kind invitation tendered me to write on the above-named subject. It is a fact known, I think, to most people, and especially to those who have made any study of poultry, that the Dorking is a strictly English variety. As history tells us they first came to special notice in the town of Dorking, a small place near the city of London, and from which place their name was derived. They were bred here very extensively and the town became much noted throughout England for the very superior market qualities of the fowls here produced, each and all of them being always so easily recognized by there being five claws on each foot.

As England has many strictly English breeds of fowls, so has America many strictly American breeds, and, strange to say, not so many years back each one was inclined to keep his own, but with the advent of the poultry show and likewise the poultry press, people were soon educated to know the importance and real value of pure-bred poultry, and as a result the interchange of these different varieties soon began. Just when Dorkings were first imported I am unable to say but that the lordly old Dorking is here in all his pride and glory many of us are very pleasantly aware, and despite his many years of existence we find him even brighter and purer than ever. That this worthy fowl has escaped the notice of so many of our prominent fanciers is not easily accounted for. I am very well aware of the great and growing craze we have in the United States for everything new, or, as the term is now applied, up to date, and our poultry is no exception. While I do not want to be understood as condemning new breeds at all I do know that this craze by mere novices to have such fowls is doing great injury to our poultry interests in America. What could be more disgusting to one who has invested his money in eggs or stock of some of our newly-invented breeds than to find he can not get two chicks alike? How much better to have invested in some well-established breed not costing likely one-half as much and yet that would have produced a fine lot of uniform chicks, which would so please him as to make him an enthusiastic fancier at once rather than one who gives it up at his first attempt.

While the new breeds and varieties are all right in the hands of the professional, who can use his superior skill and knowledge in bringing them nearest to ideal form and color, there is yet and ever will be plenty of room for our most learned fancier to exercise every particle of skill and knowledge he may possess in farther perfecting our very oldest breeds and varieties. It is a very true saying that what has been done once can be done again, and this I apply to the successful raising of the Dorking fowl in America as compared with the same in their native country, England. What better proof of the very high value of these fowls could we



ENGLISH DORKING MALE.

possibly ask for than the positive fact that for years, and I may say centuries, they have been the leading fowl in England? And the reputation they gained so many years ago they still maintain. There are more of them raised and more of them shown than of any other fowl, and in competition with the very best of all other varieties in the dead poultry exhibits it is still a pure Dorking which wins the honors or else a first cross of this breed. The price of a good Dorking in England is extremely high, single specimens having sold for as high as £50, and sales of from £15 to £25 each are very common. This being the fact I think it is evident that this great price for the Dorking has had the effect of preventing their getting here in larger numbers ere this. But, as the saying goes, "Every dog has his day," I think the same may be applied to our fowls, and the time has now come for the Dorkings' day in America. During the time of the New York Show five years ago a specialty club was organized by the breeders of this variety present, to be known as the American Dorking Club, and since this time nearly all the Dorking breeders of note in the United States and Canada have become members, and all are very enthusiastic in the good work being done and the steady and increasing demand that is being created for their favorites.

The present officers of the American Dorking Club are Henry Hales, Ridgewood, N. J., president; George B. Inches, North Grafton, Mass., vice-president; Frank H. Prentice, North Grafton, Mass., second vice-president; William McNeil, London, Canada, third vice-president; and Watson Westfall, Sayre, Pa., secretary and treasurer. The object of this organization is intended for the betterment of the Dorking fowl, and the promotion of their interests and demand in America, and to this end we very earnestly invite every one breeding them or who may be the least interested to join the Dorking Club and lend us their aid. Since the organization of this club great improvement has been made in the Dorking, for, despite the very high prices asked for good specimens by our Eng-

lish cousins, quite a number of importations have been made and the most excellent effect of their breeding may be seen wherever they have gone. It, therefore, affords me much pleasure to announce here that both stock and eggs of all three varieties of Dorkings may now be had of highest quality from Dorking Club members at very reasonable prices. My experience with these fowls began thirteen years ago, and there has been a most wonderful improvement in them during this time. When a certain Englishman visiting the New York Show some eight or ten years ago, pronounced the best of our Dorkings there as only just ordinary specimens, we thought very hard of him, but we have since learned the truth of his statement, now that we have the simon pure English bird in our own yards and can witness for ourselves their superiority.

In order that I may give some idea of how good Dorkings are being raised in America at this time, I wish to call attention to a few facts in connection with the Dorking exhibit at the late Boston Show; viz., that the first-prize S. G. cock weighed ten and one-half pounds, an American-raised bird; that the second-prize S. G. hen weighed nine pounds, and also was American raised; that the first-prize S. G. pullet was hatched June 1st, as also were third and fourth S. G. pullets; that second-prize S. G. cockerel was also hatched June 1st, and at the 120th day of his age weighed 113 ounces; that although this exhibit contained two imported Silver Gray hens neither of them was good enough to win even a ribbon in the strong competition at Boston, yet one of these hens the year before was considered by its owner good enough to compete as a pullet in the great Palace Show. As a farther proof of the fact that really good Dorkings, worthy representatives of the breed as they are now being grown in England, have at last reached America and may be sold at a fair price, I wish to say here that I know of at least one specimen which has been sold for \$25, and quite a number at from \$10 to \$15 each, and these birds were all American grown.

In recommending this, my favorite fowl, I do not want to be understood as setting up the claim that they are superior to all other fowls, but I can and do recommend them for an all-around, general-purpose fowl, a fowl which fills every possible requirement in a most admirable manner. We have some fowls which will lay more eggs than the Dorking, but their good qualities are very extreme and limited and are more than offset by their inferior ones. If one wishes fowls for simply their egg-production I freely admit that the Dorking can be excelled, as a Jersey cow will excel a Holstein in just the one item of butter-production. In judging poultry, however, as well as cattle, it is very necessary that every item be reckoned in order that their real and actual worth may be known. As already said I recommend the Dorking for an all-purpose fowl. In this fowl is just such a combination of qualities as makes up the ideal fowl. In size they are not so large as to be inactive or sluggish, neither are they so small as to be nervous or hard to confine. As layers, a record of 700 eggs in eight months from five pullets I consider good and should satisfy most people. These pullets were hatched in June and the record was begun the following January. In ideal form the Dorking has been wonderfully blessed, as the most excellent form they have been given by nature it has taken years of scientific mating and breeding with other varieties to even as much as approach. I do not mean that the Dorking form has been a model from which other breeders have copied, but, be it as it may, those particular qualities of form which they have so long striven to perfect are now and always have been possessed to their fullest extent by the Dorking. Take up the Standard and read of the perfect bird, and how many do we find that are not required to possess this same broad, full breast; deep, full body, and I can add, no approach to stiltiness, or, in other words, must not have too much legs? How often do we hear such remarks in the show-room as, "very good color but lacks width," or "lacks fullness in breast," or "lacks length," or "is too tall and leggy, too narrow in back," and many other faults of form, which shows plainly what is wanted for form but is so difficult to get outside of the old Dorking?

I have already spoken of the very rapid growth of the Dorkings, and lest I make my article too long, I will only say farther in this connection that there is no difficulty whatever to get Dorking cockerels to weigh upwards of two pounds at two months old, and there is never any time when these youngsters are not in good flesh. In concluding I wish again to call the serious attention of every fancier and poultryman in general to the actual worth and profit contained in the Dorking, and knowing from actual experience all I am claiming for them to be true, it is with the utmost confidence that I can recommend the Dorking for an all-purpose fowl.—WATSON WESTFALL.

Those Who Succeed.

We often hear it said that nothing succeeds like success. Upon this point all agree. It might just as well be said that nothing makes one so rich as plenty of money, one is about as true as the other and comes about as near telling us how to succeed. At the same time

we can follow the paths that lead to success, and we find two kinds of successful people, the one who makes the very best use of opportunities offered, and the others who are continually seeking for some way to succeed, or, in other words, creating the opportunity. It is seldom that either of these comes into play in the poultry business. Of all kinds of live stock growing none is more regular than is the producing of poultry of all kinds, whether for market or so-called fancy poultry. In both or all branches of poultry culture those who succeed must pay undivided attention to the process followed.

As we glance over the columns of our poultry journals and read of those who succeed, we usually find them hard, close workers at caring for their plant and stock. Those who succeed usually have good success at hatching, rearing, and fattening their product for market or exhibition, as it may be. This is usually the results obtained from hard, close attention to the work at hand. This same result comes to all people who may strive with the same care in any branch of commerce or at a professional following. It is the continual industry properly directed that brings the success. With poultry the only boom that comes must be the result of continual success in the show-room that warrants the demanding of high prices for well-bred stock, or the gaining of so good a reputation among the wealthy buyers of market poultry and eggs as to gain unusually high prices. This can only come after years of continual attention to the trade.

These facts point to the conclusions that are always the successful factor in poultry raising. First of all the ability to produce the best and market it in prime condition, and with this continued watchfulness is an absolute necessity, for in this way only can you hold public attention and claim continued patronage. No matter what may have been the ways of the past, nothing but the best will do in the future. It will be useless to hope to gain success with even medium grades hereafter. All those who seek to buy demand the best or at least better than they have, and those who serve them best gain not only their goodwill but their applause in favor of their stock. Success in poultry selling usually comes as a reward for good treatment of buyers who sing your praises. Those who succeed are of this class and those who hope to succeed must aim to get into this class. In no business is the fully-satisfied buyer so necessary as in the poultry business, and the oldest fanciers willingly state that never before was it so hard to please as now, showing that good quality is more generally distributed throughout the country than ever before.

All this tells us plainly that the road to success is harder to travel each year, and with this comes the reduction in price of average quality and an increased value of the best. Never before has the very highest quality sold so well; never again will medium or lower grades sell so well as formerly. All these factors cluster about the poultry business of to-day, and plainly tell us that to prosper in the business we must get to the top, and the consuming desire to be on top creates the demand for the best, and enables those who have the best to get the highest price for same, and at the same time build under them a foundation for success that can only

be maintained by the closest attention to all branches of the business.

Much of this success is obtained through the ability to always send out your stock in the very best condition. Nothing pleases like the receiving of stock in the highest condition. In this, as in all things, the first impressions are the best and most lasting. If gratifying, success follows; if dissatisfying, you may be sure that harm has been done your trade. What is worth doing at all is worth doing well; always remember this as you select a shipment, for the result of that shipment may build you up or down in a whole section of the country. A beautiful, clean package in which is cooped a well-conditioned specimen sounds your praise as far as it goes, the reverse will be the result of a poor specimen in a neglected-looking coop. Always send out good quality, in good condition, or don't send at all is the only way to carry on the poultry business.

What to Feed.

The past damp, cool spring has caused considerable tribulation amongst the growers of chicks. From the unfortunate weather has come much bowel trouble caused by the influence of the cold on the food consumed. Less trouble of this kind is reported by those who have made use of the dry chick foods. These dry grain foods are more natural for food, that is meal mixed with water. These foods are, or should be, a well-balanced ration that will sustain life and lend aid to the quick growth of bone, feather, and body of the little chick. If a good selection is made of these foods but little trouble will be experienced in growing the chick.

As the chick grows to fairly good size, as they should have done by this time, it is best to give them plenty of cracked or broken corn, wheat, and hulled oats. Nothing can be better than this; it is a good, strong, well-balanced ration for the growing chick. By having the hulled oats that is worth at this time 2½ cents per pound you have all the benefit of the oat without the bother of the hull, which is of no value as a food for the young chick, and the price for the oat alone is not so very high as against the price of the whole grain, hull and all. A good supply of this kind of food with bugs and grass must make them grow very fast. If a little meat is added to this ration, by mixing one-fifth meat or beef-scrap with some good ground meal as a mash food for one meal per day, it will push along bone and feather and help to an earlier finish for an egg-yield.

The young chick will not grow so fast during the very hot days, but when well and properly fed they gain some all the time, and are ready and in line for a speedy finish after the cooler days of fall come upon us. It is only sixty days from July first till fall fairs begin, and the poultryman begins to think of winter shows. Just think of this and do not allow your young stock to want for anything for the next sixty days of heat. If you feed well, water well, give plenty of grit, keep all about them clean and in good order, and don't crowd them, your chicks will do well and reward you for your care and trouble; but above all give them plenty of room by day and night with full supply of green food and animal food of insects, worms, and bugs and they will come along all right.

June-Hatched Chicks.

Many of the finest exhibition females in all breeds and varieties are the June-hatched chicks. No month in the year is better for this purpose, because the chicks grow beautifully and never stop till fall. The June-hatched pullets are not likely to lay prior to the winter exhibitions, and if well looked after they are usually in the pink of condition when show-time comes. Have seen June-hatched Brahmas and Cochins make full-weight pullets by January show-time. This can always be the case if they are properly fed. All full-feathered fowls should have at least five good, strong feeds per day, and two of these should be mixed mash made of ground corn and oats, with some bran and middlings and meat scraps.

It is no trick at all to grow Plymouth Rocks, Wyandottes, and the smaller breeds to full maturity by January show-time if hatched in June. Some of the males may fall behind in weight, but all the females should be in fine shape by January. Of course one must know how to feed them. Strong and proper kinds of food must be given them. As soon as they are hatched feed the very best kind of growing food. As soon as they are strong begin with a little of the mix mash and always scald it well three or four hours before you feed it; do not give it to them hot, if a little warm all right. Feed plenty of wheat, corn, and hulled oats, mash feed and meat. Cut green bone is fine for them. Begin to feed a little at a time and increase it gradually so as not to loosen their bowels. Keep them growing every moment and above all don't crowd them in the coops at night. Plenty of room is just as necessary as plenty of food.

Too much meat has a tendency to make the combs grow fast. For this reason push the bodies as fast as possible up to the time when the comb begins to show up, then gradually lessen the meat supply. Don't stop all at once, but reduce it a little each day, and in its place give more corn and less wheat and put bone-meal in the mash. Some bone-meal each week is good for them, as it builds up the size, strength, and vigor, and helps to make the bone that is needed for the quick growth. Many people sell eggs at a reduced price in June. They will be of advantage providing they are grown as we mention above, but if hatched and neglected they will never make fine fowls. Any of the smaller breeds will do splendidly if hatched in June and the best Bantams from each year are the June-hatched ones. Of all months June is the best for hatching Bantams, but they, of all fowls, must be nicely handled whenever they are hatched.

Grow a Few Ducks.

Try a few ducks. Hatch them any time that you have a broody hen and can get some duck eggs. If the young ducks have all the water they want to drink that is all they need to grow and do well, and nothing is nicer to eat than a nice, plump broiler duckling or a young roaster. They are as tender as a squab if properly grown, and are as fine eating as one could wish for at from ten weeks to ten months old. You can buy the eggs and hatch them under a hen, and as soon as well started let them run at will and give them plenty to eat, but don't keep them with the young chick-

ens, nor should you ever keep turkeys and chickens together, but keep each kind to themselves.

Young ducks grow very fast if well fed. Many grow them to four or five pounds at twelve weeks old, but this can not be expected with farm-grown ducks. Brooder-house ducks grow faster, for all they have to do is to eat and grow. When they run about like young chicks on the ground they do not grow so fast, but they will outgrow the chicks every time, providing they get plenty to eat. Send to the United States Department of Agriculture at Washington for Bulletin No. 64. It tells all about ducks and geese and it is free to all.

Clean the Water-Vessels.

All drinking-vessels used for either the old or young fowls should be kept thoroughly clean all the time, but specially so during warm weather. No other medium of passing disease from one to the other is so dangerous as the water-pan or fountain. If it is allowed to become dirty all manner of ill health may hide within it. Not only the water may become foul but the sides and bottom of the pan may become full of the germs that will destroy the health of all they come in contact with. It should be the rule to keep all the drinking-vessels absolutely clean.

Gapes, roup, cold in the head, or any kind of sickness among the fowls will contaminate the water the ailing ones may drink from. This is why the fountains, troughs, and drinking-vessels should be kept clean and not allowed to become foul or dirty, it only takes a little while to have them clean and to keep them clean, and by so doing your fowls will be healthy and less trouble will be experienced in cleaning all the drinking-vessels than will be encountered in doctoring one sick fowl that may be contaminated by a dirty pan or fountain.

Valley Farm White Rocks won half the Pan firsts. Eggs.

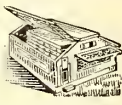


POULTRY PROFITS: making hens lay; getting rid of mites and lice; hatching; raising chicks; curing diseases; many valuable pointers sent free with name of nearest agent for Lee's Lice Killer, the great insecticide. Ask for new catalogue. GEO. H. LEE CO., Omaha, Nebraska.



STERN OLD MOTHER EXPERIENCE

has enabled us after 16 years to make perfect **The Reliable Incubators and Brooders.** You ought to have our 20th Century Poultry Book in the house. It will cost you but 10 cents and will make you a master in the poultry business. **Reliable Incubator & Brooder Co., Box A 5 Quincy, Ills.**



SPECIAL! Does This Appeal TO YOU? A Grand Combination for only 35 cents for one full year.

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12 Handsome Illustrations in natural COLORS of thoroughbred breeds of poultry, a well edited paper with poultry, pigeon, and pet stock departments, with many illustrations and show reports. Special articles every month written by that popular poultryman and judge, T. F. McGrew. Sample copy free by writing to the publishers, GEO. E. HOWARD & CO., 305-7 Tenth Street N. W., Washington, D. C.

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Well illustrated, with special articles every month by well-known and popular writers, devoted mostly to the practical side of the question. Just the paper for the beginner, but can be read with profit by the experienced breeder. Containing well-conducted Belgian hare, pigeon, and pet stock departments. Popular, progressive, and up-to-date. Sample copy mailed free by writing to the publisher, CLARENCE C. DE PUY, Syracuse, N. Y.

BOTH PAPERS one full year for only 35c.

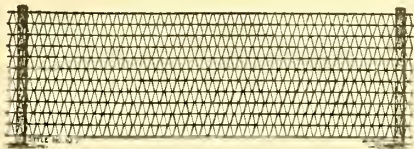
THE BUSINESS WORLD

As Viewed from the Columns of
The Feather.

HERCULES POULTRY FENCING.

We believe that poultrymen will be glad to learn that at least one manufacturer of woven wire fencing has at last turned his attention to the needs of the poultry raisers, and is putting on the market fencing which gives satisfaction and protection and is neat in appearance, moderate in price, and long-lasting.

The Coiled Spring Fence Co., of Winchester, Ind., whose advertisement is to be found on another page, has given poultry fencing the study it deserves and is, as a result, called upon, it is said, to supply a wonderful demand for the product.



Hercules Poultry Fence, manufactured by this firm is the strongest poultry fence made, and does not require posts closer than twenty feet apart, neither is a top rail or base board necessary.

Hercules Poultry Fence is made from the best quality of galvanized steel wire. No. 12 plain galvanized steel wire is used for top and bottom, No. 16 for intermediate line wires, and No. 18 for mesh wire. The widest opening is two inches. It can be erected by an inexperienced person. The makers guarantee it to turn calves, sheep, hogs, dogs, wolves, rabbits, and poultry, and that it will not sag, bag, or buckle. They offer to prove their claims by the fence itself. Catalogues and printed matter are free for the asking. Kindly mention THE FEATHER when writing.

"NEVER FAILS TO KILL."

G. E. Conkey & Co., Cleveland, Ohio, are manufacturing a louse-killer which they claim to be second to none on the market. They have given much careful study to preparing the formula, and their constant attention to the manufacturing of their louse-killer, and are daily filling orders from supply houses and customers who are recommending it in the highest terms. All poultrymen should be prepared to effectively battle with this destructive pest, and we bespeak a trial for Conkey's Louse-Killer. See their ad for prices.

Shows and Associations.

The sixty-second annual fair of the Columbia County Agricultural Society will be held at Chatham, N. Y., Sept. 2-5, 1902. W. A. Dardess, Secretary, Chatham, N. Y.

The tenth annual show of the Southwestern Michigan Poultry Association will be held at Kalamazoo, Mich., Dec. 22-27, 1902. James A. Tucker will judge, and J. S. Carr is secretary.

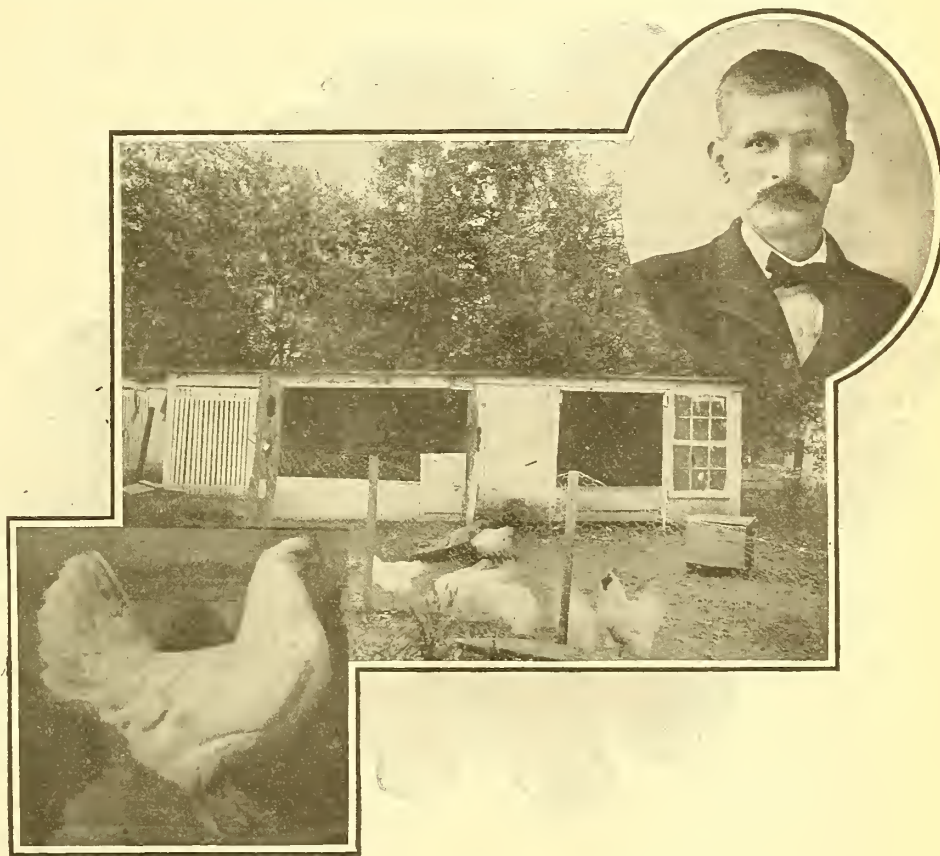
Twenty "true and honest poultry fanciers" of Milwaukee, Wis., have organized an association to be known as the Poultry Fanciers' Association of Mil-

waukee. They expect to hold club shows in the near future for the benefit of younger fanciers, with good chances of a big show in the fall. The secretary is Wm. A. Hackbarth, 760 Smith St., Milwaukee, Wis.

The poultry department of the Great Inter-State Fair, Trenton, N. J., Sept. 29-Oct. 3, comes out this year in new and up-to-date style. There is to be a strictly first-class classification, with single entries. The premiums are large and there are plenty of cash specials. The best of judges have been secured to place the awards; namely: McGrew, Drevenstedt, Nichols, Ungerer, Stanton, Tiemann, and Kennedy. On the evening of Sept. 30th a banquet will be held for the exhibitors, and everyone is sure of a rousing good time. This fair is probably the largest Agricultural Fair in the country, and it is the desire of the management to raise the poultry department to the high level of the other departments. Trenton is situated on the main railroads, and no exhibitor, no matter from what section, will fail to receive prompt and accurate delivery of his exhibits. To those desiring stock, I will say that there is no better place to sell stock than at the Trenton Fair. Good prices are the rule. Nearly 200,000 people visit this fair annually, and this in itself is a token of business seldom offered poultrymen. Before making up your mind where to show don't forget to look up Trenton, and the good things we offer. You won't regret it. For premium-list and all information address Walter S. Gladney, Jr., Sec'y Poultry Dept., Trenton, N. J.

The Washington Poultry, Pigeon, and Pet Stock Association will hold its second annual exhibition in this city

Nov. 18-22, 1902, at Masonic Temple, Cor. 9th and F Streets. The officers are: James S. Raeburn, president; E. Calla Duffy, vice-president; Louis B. du Fief, financial secretary and treasurer; John M. Allen, secretary; J. T. Beall, assistant-secretary. The following well-known judges have been selected to place the awards: Geo. Ewald, pigeons; Thos. F. McGrew, John L. Cost, Ben Thornton, Frank Jenkins, pet stock. The association extends a hearty invitation to all breeders of thoroughbred stock to exhibit at their coming show. They guarantee all special and cash prizes to be paid on the last day of the show. The association accomplished this last year. Their promptness in paying their premiums was commented upon by all who showed with them. The aim of the members is fair play to all, partiality to none. Competition is open to the world in all classes. A number of very handsome silver cups will be offered, also large cash and regular prizes in every department. The Empire Cooping Co. has secured the contract for cooping the show. Masonic Temple where the show will be held, is one of the best lighted and ventilated halls in the Capital City. All car lines pass by or near. Arrangements have been made with the Express Companies as to the extra care and prompt delivery of stock. The association guarantees that every exhibit will be carefully cooped and shipped back to the owners on the last day of the show. Every precaution will be taken to insure the safe delivery of stock. Any information relative to the show may be obtained by addressing the secretary, J. M. Allen, 3419 U St. N. W., Washington, D. C.



Valley Farm, Simsbury, Ct., now has some bargains. Eggs.

The Above Cut Shows W. W. Kulp, Pottstown, Pa., One of His Poultry-Houses, and a Portrait of One of His Winning Beauties.

Classified Advertisements

Fully prepaid advertisements of twenty-five words or less inserted under this heading at the following rates:

One time.....	\$.50
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READ CAREFULLY.

Copy may be changed as often as desired, though we advise running a standard ad. when possible, in order that buyers may become acquainted with it. Length of ad. is not limited, but additional words will be charged at the rate of 2 cents each for one insertion, or 1½ cent each for each insertion when run three times or more. Initials and figures count as single words.

PLYMOUTH ROCKS

EXHIBITION BARRED ROCKS. Clear, narrow bars; good bay eyes; clear yellow legs and beak. Eggs, \$1 per 13. E. B. LEEK, Amagansett, L. I., N. Y.

AT ELMIRA, Dec. 1899, and Nov. 1900, on Barred Rocks we won 8 firsts, 7 seconds, and 5 thirds. Choice breeding stock at \$2 up. Eggs, \$2 per setting. KRAFT BROS., Box 536, Hornellsville, N. Y.

BARRED PLYMOUTH ROCKS—Bradley and Welles strains. Clear, even barring; large, vigorous, and tremendous layers. First winners at Orange and Washington past six years. Eggs rest of season one-fifth value, \$1 per 13; 95 per cent fertility guaranteed. Pedigreed Collie pups from imported stock, \$5 each. WM. H. CYPHERS, Box 105, Washington, N. J.

BARRED ROCK EGGS from the prize-winning pens of Leffel and Gibson for sale; also Single Comb Brown Leghorn eggs. Write me for prices. E. P. FRALEY, Herdershot, O.

BARRED PLYMOUTH ROCKS, Hawkins' and Thompson's strains. Fine exhibition cockerels and pullets at \$2 each; trios, \$5. Eggs, \$1.50 per 15. 20 years a breeder of Barred Rocks. Satisfaction guaranteed.

C. S. JENSEN, Dover, N. J.

BARRED ROCKS, Hawkins' "Royal Blue" strain direct. Eggs, \$1 per 15; \$5 per 100. Bronze Turkeys, 45-lb. tom, 9 eggs, \$2. Catalogue. ELMER GIMLIN, Rosemond, Ill.

B. P. ROCK EGGS, \$1 per 15, or \$2.75 per 45. Latham breeding. M. B. Turkey eggs, \$2 per 12. JOHN B. TRICE, Summitville, Madison Co., Ind.

WHITE ROCKS.—Winners wherever shown. Write your wants to ED. L. DOUGLASS, 453 W. Center St., Akron, O. Eggs and stock in season and guaranteed. Mention this paper.

WHITE PLYMOUTH ROCKS, \$3 to \$5 per trio; \$5 to \$10 per pen. Sold on approval. Eggs from choice pens, \$2 per 15; \$3 per 30. C. M. BARTLETT, Agnewville, Va.

FINE BUFF PLYMOUTH ROCKS.—Hawkins' strain. The kind that win the prizes and lay the eggs. A fine booklet free. J. G. STAUFFER, Palmyra, Pa.

WHITE PLYMOUTH ROCKS Exclusively. Pure, choice, selected stock. Eggs for hatching. M. H. MICHENER, Carversville, Bucks County, Pa.

CHICKS FOR SALE, \$3 per dozen. Bred from third-prize Barred Rock cockerel at Philadelphia. Pure Bradley Bros.' strain. WM. WISLER, Pine Iron Works, Pa.

PLYMOUTH ROCKS of the following varieties: Barred, White, Buff, and Partridge. Choice stock for sale reasonable. Eggs in season, \$1 per 13. H. W. MORGAN, Ashtabula, O.

BARRED ROCKS. Eggs for setting, 15 for \$1. Fine, farm-raised stock, leading strains. W. C. VALENTINE, 524 Fulton St., Jamaica, N. Y.

WHITE ROCKS, bred from prize-winners for sale in the fall. American Roup. Cholera Cure, each 25 cents postpaid. F. A. STEDMAN, Rutherford, N. J.

BUFF PLYMOUTH ROCKS. (Nugget strain.) Choice yearlings, hens and cocks, cheap. It will pay you to write us before buying elsewhere. SPRING RUN POULTRY FARM, Washington, N. J.

FOR WANT OF ROOM I will sell at a sacrifice a good breeding-yard of Buff Plymouth Rocks. Order quick. Rare bargain. T. J. LITTLE, Hanover, Pa.

WILLIAMS & METLAR, Barred Plymouth Rocks. We have the laying kind. Hatching eggs, \$1 per 15; for incubator, \$4.50 per 100. "EDGEMORE FARM," New Brunswick, N. J.

LEGHORNS

PRIZE-WINNING S. C. Brown Leghorns. 10 prizes on 5 entries at Rochester, 1901. Three 1sts, four 5ths, and five specials. Fine stock score into the 90's for sale cheap. Eggs, \$1 per setting. FRANK G. RICE, 9 West Avenue, Dausville, N. Y.

HASSLER'S BUFF LEGHORNS AND BUFF ROCKS.—Cornell, Arnold, Lamon, Brown-Nugget strains. Eggs \$1.50 and \$2 per 15. White Leghorns' best strains, \$1 per 15. E. S. HASSLER, Wernersville, Pa.

SINGLE-COMB WHITE, BROWN BUFF Leghorns; White Plymouth Rocks. Eggs in season, \$1.50 per 15; \$4 per 50. A. G. SNYDER, Bounton, Morris Co., N. J., Box 394.

SINGLE COMB LEGHORNS in Buff, White, Brown, and Black. Choice stock for sale reasonable. Eggs in season, \$1 per 15. H. W. MORGAN, Ashtabula, O.

ROSE COMB BROWN LEGHORNS. Stock and eggs for sale. Prize-winning stock. P. KYLE, Kyle Institute, Flushing, L. I.

SPROGEL VALLEY POULTRY FARM Breeder of Rose and Single Comb White Leghorns. Special mating, \$1 per 15 eggs. Order soon. SAM BLIEM, Pottstown, Pa.

MRS. C. W. HARRINGTON, Harford Mills, N. Y. Buff Leghorns exclusively. Large size, heavy-layers, prize-winning strain. Eggs, \$1 per 15; \$4 per 100.

HOWELL'S BUFF LEGHORNS are ideal. There are none better at any price. Eggs, \$1 per 15. WM. L. HOWELL, Geneseo, N. Y.

ONE PEN OF EXTRA GOOD Single Comb White Leghorns, ten hens and cock, not akin, all yearlings. Excellent layers. T. D. SCHOFIELD, Woodstock, N. H.

ROSE COMB BROWN LEGHORNS. Eggs from Rose Comb Brown Leghorns, fifty cents a dozen; four dollars a hundred. Satisfaction guaranteed. W. S. CARR, McAfee, N. J.

ROSE COMB BROWN LEGHORNS FOR sale. A breeding-yard of 12 hens and cock, price \$20. This is first-class stock. The kind that produces our New York and Boston winners each year. Eggs, \$2 per setting. W. G. FRONHEISER, Prop. Address J. B. HOFFMAN, Mgr., Sanatoga, Pa.

TWENTIETH CENTURY POULTRY FARM. Single Comb White or Brown Leghorns, also White Wyandottes. Eggs, \$1.50 per setting. Best strains, highest fertility, utility. F. KOPP, Ridgewood, N. J.

SILVER DUCKWING LEGHORNS, Mottled Javas, Black Javas, Rhode Island Red Bantams, Rose Comb, of my own origin. Eggs, \$3 per 15. Bantams' eggs, \$5 per 12. JONES, "The Java Man," Suffield, Conn.

EGGS 50 cents per setting, from S. C. Brown Leghorns. They are large, thoroughbred, well ranged, and are laying strain. F. ROONEY, Corning, N. Y.

SINGLE COMB WHITE LEGHORNS. Eggs from selected pens headed by first Chicago and first Trenton Poultry Show winners, \$2 for 13; \$5 for 39. ALFRED P. SMALLEY, Clayton, N. J.

ZWICK'S FAMOUS ROSE COMB BUFF Leghorns won 9 prizes at the Pan-American. They are winners at all leading shows. Prize-winning Buff Rocks. Send for circular. F. S. ZWICK, Box 676, W. Seymour, Conn.

WYANDOTTES

WHERE DO YOU BUY YOUR Stay-White Wyandotte eggs for hatching? Why, at Shoemaker's, of course! He guarantees satisfaction, and ships you eggs that test 75 to 90 per cent fertile. He answers your correspondence promptly. He is breeding from extra fine pens this season. Eggs, \$2 per 15; eggs for incubators, \$5 per 100. W. E. SHOEMAKER, Laceyville, Pa.

WHITE WYANDOTTES. Winners at New York, Orange, and Washington past six years. Eggs one-fifth value rest of season from absolutely stay-white, vigorous stock, \$1 per 13. 95 per cent fertility guaranteed. Pedigreed Collie pups from imported stock, \$5 each. WM. H. CYPHERS, Box 105, Washington, N. J.

BUFF WYANDOTTES EXCLUSIVELY since 1894. Fertile eggs from solid buff matings that have good size, shape, combs, and even color, at \$2 per 15. Stock for sale. W. P. PRATT, Chatham, N. Y.

WHITE WYANDOTTES EXCLUSIVELY, Hunter and Duston and Keller strains. Large birds, pure white, heavy layers. Eggs, \$1 per 15; \$5 per 100. Also some of A. C. Hawkins' stock direct. Eggs, \$2 per 15; 3 settings, \$5. Fine cockerels, \$3 to \$5. Satisfaction guaranteed. WM. BURCHALL, JR., St. Denis, Md.

PARTRIDGE WYANDOTTE EGGS FROM pure Cornell-Brackenbury stock. Thirty eggs for five dollars, or fifteen for three dollars. WM. M. CONNOR, Weston, N. J.

MRS. DENTON COLE, Winwood, Pa., offers c icks from high-grade White and Silver Wyandottes, 24 hrs. to March hatched, \$1.50 and up per dozen. Price of breeders reduced until August to close surplus. Bargains in males.

WHITE AVE. POULTRY YARDS, Hamilton, Md., C. P. Amendt, Prop. Breeder of Eureka strain of White and Buff Wyandottes and S. C. White Leghorns. Eggs for hatchings \$1.50 per 15.

BUFF and PARTRIDGE WYANDOTTES. Prize matings, and will produce prize-winners. Eggs, \$2 per 15; White Wyandottes', 20 egg and Duston strains, standard and utility combined, \$1 per 15; special matings' Duston strain direct, \$2 per 15. WELLSBORO POULTRY YARDS, Wellsboro, Pa.

DISER & RIDDELL, Box F, Shushan, N. Y. Exclusive breeders of the greatest prize-winning strain of Buff Wyandottes. 100 breeders for sale. Also eggs.

PARTRIDGE WYANDOTTE EGGS FROM Madison Square Garden prize-winners and all the big shows, \$3 per 15; \$5 per 30. HAIGHT & KRETZLER, Successors to Theo. Haight, Jr., 157 Springfield Ave., Rutherford, N. J.

WHITE WYANDOTTES. Cock took 3 prizes at New York last winter. Are always white. Eggs, 13 for \$2. W. C. VALENTINE, 524 Fulton St., Jamaica, N. Y.

FOR SALE.—Fine pair of Partridge Wyandottes; hen won first at Harrisburg, 1902, \$10. HARRY M. GEESLY, Dallastown, Pa.

MINORCAS

BLACK MINORCAS (Northup). High grade-line bred, from prize-winners. Eggs guaranteed to hatch. Correspondence solicited. E. D. CROUCH, 418 Monroe St., Anacostia, D. C.

MINORCAS.—Blacks, Pan-American winners; 8 entries, 8 premiums, including two firsts. Prolific layers of largest white eggs. Catalogue. MRS. GEO. MONROE, Box D, Dryden, N. Y.

SINGLE COMB BLACK MINORCAS. Winners at the Grand Cleveland and Rochester Shows. Eggs and stock for sale. Eggs, \$1.50 per 13. For sale after June 1st, fifty hens, 1 and 2 years old, price from \$1 to \$2. Catalogue free. JOS. G. KRENN, 114 Beecher St., Syracuse, N. Y.

BLACK MINORCAS (Northup and Trethaway strains), prolific layers of extra large pure white eggs. Fertility guaranteed. \$1.50 per 15. E. L. BEAM, Box 15, Stelton, N. J.

TIOGA YARDS. High-class, line-bred White and Black Minorcas. Trios, \$6; cocks, \$3; hens, \$1.50. Fine birds. Satisfaction. L. D. CLARK, Apalachin, N. Y.

BANTAMS

GEO. C. SALMON, Port Dickinson, N. Y., originator of the "Yellow Kid" strain Buff Cochins Bantams. I have bred them exclusively for ten years. I ship on approval and can assure you reliable stock. Circulars free.

SILVER SEBRIGHT BANTAMS, winners at Philadelphia, Boston, and New York, on 24 entries, 24 ribbons and 3 specials, including 2 silver cups. Stock for sale. Sell no eggs. A. C. TREICHLER, M. D., Elizabethtown, Pa.

LIGHT BRAHMA BANTAMS. Winners at Madison Square Garden; also 2d cock, 1st hen, 1st cockerel, 1st pullet, and all specials at Pan-American Exposition. Eggs, \$3. Circular. GEO. W. HILLSON, Box 404, Amenia, N. Y.

EGGS THAT HATCH from birds that win. I won more first prizes on Sebrights, Pan-American, than all my competitors combined. Choice cockerels cheap. CLYDE PROPER, Schoharie, N. Y.

BEAUTIFUL Buff Cochins Bantams at three dollars per pair. Eggs from same, two dollars per thirteen. WM. M. CONNOR, Weston, N. J.

RHODE ISLAND RED BANTAMS, ROSE
Comb, of my own origin. Have bred them six years. Little beauties. Eggs, \$5 per 12. Mottled Javas, Black Javas, Silver Duckwing Leghorns. Eggs, \$3 per 15. JONES, "The Java Man," Suffield, Conn.

EXHIBITION BLACK BREASTED RED
Game Bantams bred down to date for shape and color. Eggs in season, \$2 per 13. L. F. DIDDIE, Chesterton, Indiana.

GAMES

CHAS. T. CORNMAN, Carlisle, Pa., breeds all varieties of Game and Ornamental Bantams and Exhibition Games to the highest possible standard. If you don't believe it, look up the awards at the great shows. Stock and eggs. Card for the asking.

EGGS.—Exhibition B. B. Reds, also a few good birds for sale, B. B. Reds and Pits. Prices are right. F. G. BOUQUET, Owego, N. Y.

INDIAN GAMES

WHITE I. GAME EGGS for hatching, \$1.50 per 15; \$2 per 26. My birds took all first, second, and third prizes at Hagerstown Show. Stock for sale. Stamp for reply. H. B. SWARNER, Plainfield, Pa.

WHITE INDIAN GAMES; choicest of table to 1st; rock-bottom prices. Business changes induce us to sell our entire stock, including all our famous New York, Philadelphia, and Hagerstown prize-winners. Single birds, pairs, trios, pens, etc. Unequalled opportunity. Send stamp for particulars. EGG HARBOR FARM, Tuckerton, N. J.

RHODE ISLAND REDS

PRIZE-WINNING Rose and Single Comb Reds. Winners at New York, Athol, Mass., Torrington, Hartford, Danbury, Wallingford, Stamford. Eggs reduced to \$1 per 15. HARRY BARTHOLOMEW, Wallingford, Conn.

THREE HUNDRED breeding birds for sale from \$2 to \$10 each: R. I. Reds, Houdans, Lt. Brahmas, Buff P. and Golden S. Bantams. Some good bargains for early buyers. We want more room for our young stock. Also some fine Belgian Hares and Homing Pigeons for sale cheap. Send for circular and prices. DANIEL P. SHOVE, Box 666, Fall River, Mass.

POLISH

S. F. GULLIFORD, Akron, Ohio, 30 years a fancier of Polish. My specialties, White Crested Black, Bearded Silver, Bearded Golden, Bearded Buff Laced, and Bearded White. I breed these beautiful fowls to the highest standard of perfection. If interested in Polish write me.

LANGSHANS

BLACK LANGSHANS and White Plymouth Rocks. Only record laying breeders. Hardy stock that will be sure to please, for sale. Eggs, \$1.50 for 15. FRANK I. AHERN, Box 51 Laurel, Md.

WHITE LANGSHANS; greatest winter layers; bargain-counter prices. Business changes necessitate closing out our entire stock, including all our famous New York and Philadelphia prize winners. Single birds, pairs, trios, pens, etc. Unparalleled chance. Send stamp for particulars. EGG HARBOR FARM, Tuckerton, N. J.

COCHINS

BUFF COCHIN SALE.—Containing a solid Buff cockerel and 7 choice hens. Will be sold cheap to make room for Wyandottes. SPY POULTRY YARDS, Hanover, Pa.

BUFF COCHIN EGGS. Oakland Farm stock. Big, broad, heavy-feathered fellows. Eggs, two dollars per thirteen. WM. M. CONNOR, Weston, N. J.

ORPINGTONS

GERY'S BUFF ORPINGTONS. Bred from the best English bloods. All pens headed by N. Y. winners. Pullets and hens \$1 up. Cockerels and cock, \$2 up. Eggs, \$2.50 per setting. Satisfaction guaranteed. W. A. GERY, Sinking Spring, Berks Co., Pa.

BUFF ORPINGTONS.—Stock and eggs for sale. Many prize ribbons and New York association diploma. P. KYLE, Kyle Institute, Flushing, L. I.

\$2 BUYS 15 EGGS from my great, big, imported Buff Orpingtons, Cook's strain. Customers report strong fertility and satisfactory hatches. H. A. DEMAND, Oxford, O.

BRAHMAS

PURE AND CAREFULLY BRED. Philander Williams' Light and Dark Brahma and Buff Cochins eggs. Stock all gilt edged. Fresh and safely packed eggs, \$1 per 13. S. J. MYERS, Lock Box 34, Catawissa, Pa.

NETTLETON'S LT. BRAHMAS, 1868-1902. Winners at Hagers' own, Philadelphia, New York, Pittsburg, and other exhibitions. A few choice birds to spare. Eggs, \$2 per 13. C. P. NETTLETON, Shelton, Conn.

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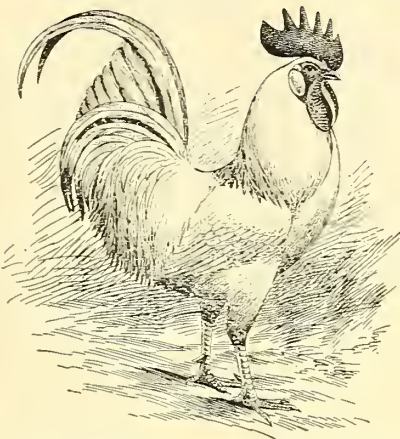
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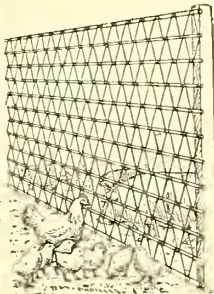
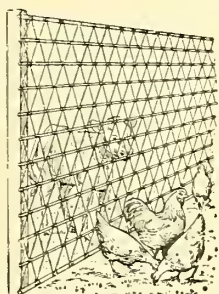
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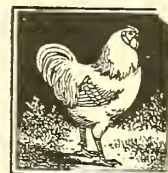
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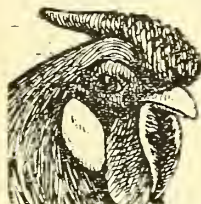
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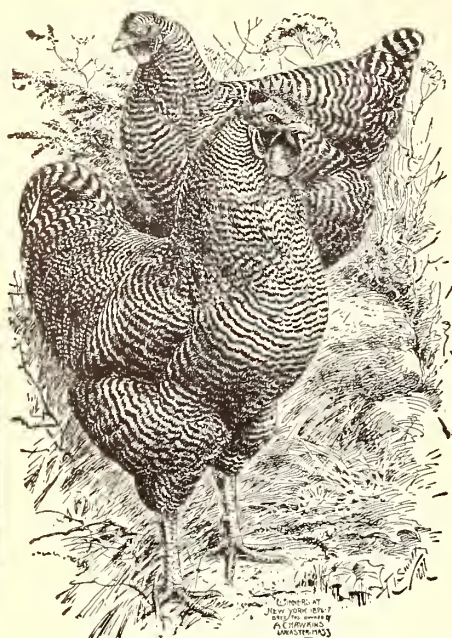


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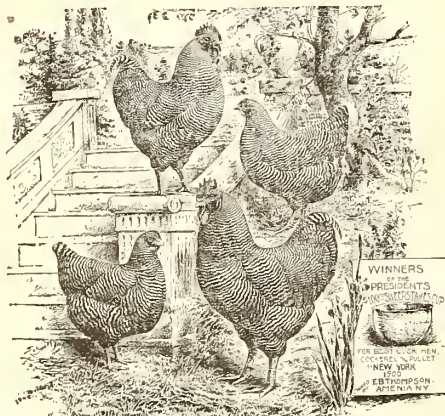
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White Plymouth Rocks, White
Wyandottes, R. I. Reds, S. C.
W. Leghorns, Blk. Minorcas, and Lt. Brahmas.

BERWYN POULTRY ASS'N.

J. FRED. KEEFAUVER, Sec'y,
Box 215, Berwyn, Md.

WE WON

57 Firsts, 48 Seconds, 49 Minor Prizes, and 16 Specials, in 1900 and 1901, at Hagerstown, Rockville, Hamilton, York, Washington.
Eggs, \$2 for 15; \$5 for 45.
For stock or other information address the Sec'y.

WE ARE not selling eggs this season, but we are raising some of the healthiest, strongest

WHITE WYANDOTTES

We ever got out. Stock for sale later.
THE FRED E. PILE POULTRY FARM CO.,
CLEVELAND, OHIO.

Six Incubators at Half-Price.

GOOD AS NEW. STANDARD MAKES.

Three 300-egg size; three 250-egg size. Write at once.

C. P. GLOGGER, Beaver, Pa.

NORTHUP'S MINORCAS SINGLE AND ROSE GOMB.

BARGAINS IN BREEDING HENS to make room for growing chicks. Fowls successfully exported to all parts of the world. LARGE CATALOGUE FREE. 68-page book, "Minorcas All Varieties," history, mating, fitting for show, &c., fully illustrated, 25 cts., postpaid.

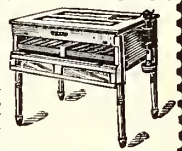
My Minorcas have never lost a special for large size, and have won more prizes in strong competition at New York, Boston, Washington, and other leading shows, than any other four strains combined, which proves the quality of stock I sell.

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200-Egg Incubator for \$12

The wonderful simplicity of the **Wooden Hen** and the greatly increased production forced by its immense sales, makes it possible to offer this perfect hatcher for \$12. Guaranteed to hatch as large a percentage of eggs as any other hatcher at any price. Self-regulating and fully guaranteed. Send for the free illustrated catalogue.

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Flood's Roup Cure

The only **RELIABLE ROUP CURE** on the market. It is guaranteed. No cure, no pay. **FLOOD'S ROUP CURE** can be used with greater success, with less time and attention than any other of the so-called cures. Price, 50 cents postpaid. Send us 2 cts. in postage for Sample. Manufactured only by

W. H. FLOOD, 1403 Woodland Avenue, Cleveland, O.

Good Blood. Good Feed, Good Care, Good Mating, Produce Good Stock. This is just what you want and what we sell you. Circular free. **EGGS, \$2.00 per 15; \$3.50 per 30.**

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There never was an incubator catalogue issued that approaches our 1902 book in design, beauty, worth and originality. 50 full page tinted plates, 4 reproduced original paintings and over 700 original half tone illustrations. We mail it free. Write at once for Catalogue No. 40. The best incubators and brooders in the world are made by the

Prairie State Incb. Co., Homer City, Pa

Poultry Supplies

in greatest variety and any quantity. We handle everything that tends to make the poultry business pleasant and profitable. Bone Cutters, Incubators, Crushed Oyster Shells, Grit, Meat Meals, Beef Scrap, Bone, Drinking Fountains, Poultry Netting, Condition Powder, etc.

CUT CLOVER HAY ready for use—the great winter green food. \$1.75 per 100 lb. sack. Send for illustrated catalogue FREE to all inquirers. **HARVEY SEED CO., 21 Ellicott Street, Buffalo, N. Y.**

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Will sell fairly good breeding stock of Buff and Partridge Wyandottes; Buff, Partridge, and Barred P. Rocks; Buff Leghorns; Rose and Single Comb R. I. Reds; Buff, White, and Black Cochins Bantams, in lots of 1 cock and 4 hens for \$8.

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BREEDER OF

Light Brahmas, Partridge and Buff Cochins, White and Barred Plymouth Rocks.

Also Buff Cochins, White Japanese and Black Breasted Red Game Bantams. Toulouse Geese and Pekin Ducks. Fowls and Eggs For Sale. Thoroughbred Jersey Cattle.

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20 HENS

working steadily at one time cannot hatch so many chicks as one of our 200-egg size

Successful Incubators.

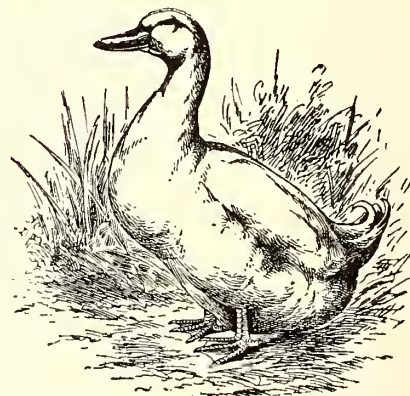
You'll know exactly why when you read a copy of our 158 page

Catalogue. We mail it for 6 cents. Ask for Catalogue No. 3. Catalogue in 5 different languages. Address nearest office, Des Moines Incubator Co., Des Moines, Ia. Buffalo, N. Y.

Imperial Pekins

—AT—

Maple Farm Duck Yards.



2,500 breeding birds on hand, all carefully selected from many thousands. The largest and best birds on this continent. Birds not akin, from forty different yards. Eggs in season, fertility guaranteed. Order early to secure birds. My book "Natural and Artificial Duck Culture" with each order for birds or eggs. See what the Boston marketmen say about our birds. Send for illustrated catalogue. The Monarch Incubator still ahead, send for catalogue.

JAMES RANKIN, South Easton, Mass.

Gold Medal and Highest Award at Pan-American, October, 1901, Were Placed on

The CYPHERS INCUBATOR

Time and time again the Cyphers 360-egg machine in the hands of our customers has hatched upwards of 300 chicks from 360 untested eggs. Allowing ten chicks to the hen, it would take thirty hens to hatch 300 chicks.

THE EVIDENCE.

"My largest hatch was 345 chicks out of 360 eggs."—J. F. Ramsey, Mortonville, Pa.

"I got 300 chicks out of 318 fertile eggs."—Edw. Sharpe, Geneva, N. Y.

"I hatched 311 chicks out of my 360-egg Cyphers."—Herman Friedl, Haskell, Ind.

"From 360 eggs we have hatched 317 of the brightest, strongest chicks I ever saw."—Frank B. Taylor, Prompton, Pa.

"From my No. 3 Cyphers, holding 360 eggs, we hatched 311 chicks."—L. R. Hobart, Lake Crystal, Minn.

"Out of our largest size incubator I hatched 314 good, healthy chicks."—H. Murr, Gordonville, Pa.

"My incubator holds 360 eggs and from one loading I got 301 chicks."—Jas. C. Myers, Oakes, Pa.

"One hatch I obtained 327 strong, healthy chicks from the 360-egg Cyphers."—Sprague Bros., Florence, O.

Think of the work and the worry in caring for the thirty hens it would require to hatch 300 chicks, ten to each hen! Five minutes, morning and evening, will take perfect care of the Cyphers 360-egg incubator—THIS WE GUARANTEE.

Literally thousands of persons in every walk of life are doing as well as the few

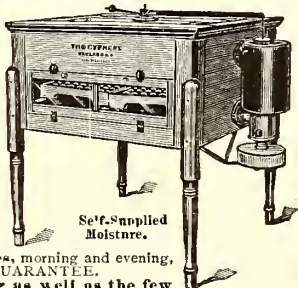
above quoted, and the smaller sizes of Cyphers Incubators (60, 120 and 240 eggs) do precisely as good work as this

largest size, on this you can absolutely depend. While you are about it, why not buy the best and know that you

are right? Illustrative descriptive 16-page circulars, English, German or Spanish, free on request. Complete

catalogue, 180 pages, 8x11 inches, 10 cents in stamps for postage. Ask for Book No. 6 and address our nearest office.

Cyphers Incubator Co., BUFFALO, N. Y., Court and Wilkeson Sts. CHICAGO, ILL., 325 Dearborn St. BOSTON, MASS., 34 Merchants Row. NEW YORK, N. Y., 8 Park Place.



Self-Supplied Moisture.

POULTRY PRIZES

There are no Better

Of course you have heard of the famous Pine Tree Farm poultry and its prizes. Don't you want to introduce a little new blood into your flock? I have 23 varieties of land and water fowls and will Guarantee Satisfaction with everything that I sell and ship. Eggs by the sitting or the hundred. Send for big free catalogue.

D. A. Mount, Box 1, Jamesburg, N. J.
The Pine Tree Farm.

At Fishers Island Farm

We have growing on the immense range (5000 acres) the largest and best lot of young stock from our finest

**Barred and White Rocks, Cornish Indian Games,
Pekin Ducks, and Bronze Turkeys,**

that we ever had. We want to send you our catalogue which tells why our birds are superior to others and where, when, and what they won.

We make no extravagant claims based upon winnings at smaller exhibitions, but have won regularly at the world's greatest shows. The catalogue is free.

FISHERS ISLAND FARM,

Box H, Fishers Island, N. Y.

"THE IDEAL

WHEN IN DOUBT GET THE IDEAL.

"The Brooder With Advantages."

Booklet free upon mention of this paper.

THE IDEAL BROODER CO., Glencarlyn, Va.

BROODER."

CHAMPIONSHIP OF AMERICA

WAS AWARDED TO

Millville Poultry Farm's Buff Plymouth Rocks

AT BOSTON, 1902.

\$100 CHALLENGE CUP FOR BEST MALE.

Club cup for best cock, hen, cockerel, and pullet. Gold special for best cock and two hens, and numerous other specials went on our birds. 1st cock, 4th hen, 2d and 5th cockerels, 3d pullet, in a class of the 172 best Buffs ever shown, combined with our Philadelphia, Pan-American, and New York winnings, place our Buffs far in the lead. Our Barred P. Rocks, White and Buff Wyandottes, and Pekin Ducks have an equally good record.

Eggs from our WINNERS, \$3 per 13; \$5 per 26. Send for our free illustrated catalogue and mating-list.

MILLVILLE POULTRY FARM,

M. F. DELANO, President.

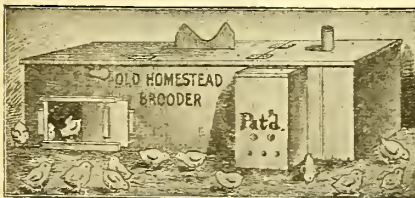
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Trethaway's Anthracite Black Minorcas

Have Conquered the World's Best Produce.

Winning more prizes at past five Club Meeting Shows than all other strains combined and I bred all my winners. A grand lot of chicks coming on for the fall and winter shows. Send for catalogue and see where the winners come from that win at N. Y. and Phila.

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THE Old Homestead Brooder

Is the only Brooder made in the world that will hover its allotted number of chicks until they are three months old. We make three sizes, 30, 50, and 100 chicks. Catalogue free.

OLD HOMESTEAD BROODER CO.,
Middleboro, Mass.

THOSE LITTLE CHICKS

You lost through bowel trouble might all have been saved had you had our No. 2 Star Specific to use, and the same is true of the old fowls had you used No. 1. We guarantee these remedies to cure every case of bowel trouble if the bird has strength to swallow. If you want eggs use Star Specific No. 3. Our No. 4 will knock out a cold in short order. No. 5 is for inactive males. No. 6, Indigestion. To successfully raise those little chicks you expect to hatch, then you must have Star Specific No. 7, a perfectly balanced food for little chicks. No. 8, a disinfectant insect-powder.

You can not afford to be without these Specifics. A small investment may save you \$50 worth of birds. Don't wait until you need them before you order, but have them on hand. Circular and price-list for the asking. Don't accept any substitute. Insist on having Star Specifics.

MANUFACTURED ONLY BY

STAR INCUBATOR COMPANY, Bound Brook, N. J.

Yes, you can see them grow.



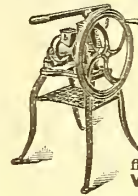
Get the latest book out entitled "Little Chicks" over 160 pages, written by the most successful poultrymen. Sent postpaid 50c. Circular free.

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POULTRY SUPPLY CO.,

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**New Green Bone Shell
Cutter for the Poultryman**

Also Bone Mills for making phosphate and fertilizer at small cost for the farmer, from 1 to 40 horsepower. Farm Feed Mills grind fine, fast and easy. Send for circulars. **WILSON BROS., Sole Mfrs., Easton, Pa.**

**Barred Rocks
Buff Rocks
White Wyandottes
Light Brahmas**

Do you want the best? If so, you had better write me. Eggs, \$1 per setting of 15. Catalogue free.

JAMES Q. MYERS,

Box A.

Oaks, Penn'a.

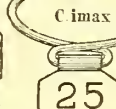
Smith's Sealed.

Pat. Dec. 18, 1900.



12 for 30c; 25, 50c;
60, \$1.00; 100, \$1.50.
Sealers 50c, 65c,
and 75c.

Cimax



12 for 25c; 25, 40c;
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Smith's Double Clinch.



12 for 20c; 25, 35c;
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ECLIPSE LEG BANDS
20¢ a doz; 25 for 35¢; 50 for 60¢; 100 for \$1.

Sample for stamp. Take your choice, circulars free. Ask your supply dealer for our bands.

KEYES-DAVIS CO., Ltd., Battle Creek, Mich.

Successors to W. H. Smith & Co., Blythedale, Mo.



In a Victor Incubator always yields a vigorous chick. Simplest, most reliable, cheapest, first-class hatcher

**the VICTOR
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Thousands in use; we pay freight. catalogue 6 cents.

GEO. ETEL CO., Quincy, Ill.



MY WINNINGS

At Malden, Mass., Dec. 4-7, in strong competition, but strengthen my reputation for breeding a quality of Barred Plymouth Rocks which can not be excelled. I won 1st and 2d on cocks; 1st and 2d on cockerels; 1st, 2d, and 3d on pullets; 3d on hen; 1st and 2d on pens. I have some splendid specimens of Barred Beauties for breeding stock at \$4 and upwards. Eggs, \$2 per setting; \$3 per 100. Circular free. **J. W. RANDALL, Prop., Meadowview Poultry Yards, Canobie Lake, N. H.**

BROWN LEGHORNS.

THE EMPIRE STRAIN
ALWAYS WINS.

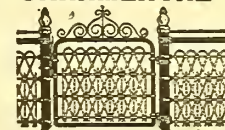


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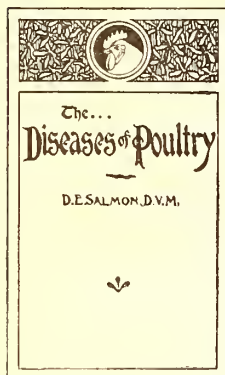


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FACTORY PRICES and guarantee any one can erect our fence. We make special prices to Churches, Cemeteries and large Parks. Send us your address. We will take pleasure in mailing you our large 32 page catalog on Ornamental Fencing, free. If you are interested in Farm Fencing send for our 42 page Catalogue. Address **COILED SPRING FENCE CO.**

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The Diseases of Poultry.



"The Diseases of Poultry," by D. E. Salmon, D.V.M., is the only standard and reliable work published in the English language on this important subject to every poultryman. The author is too well known to need an introduction, and his works are adopted as authentic by everyone. This is his latest book, and all who breed fowls, whether for pleasure or profit, should have a copy of it. This great book has twelve complete chapters treating on all known diseases which affect poultry.

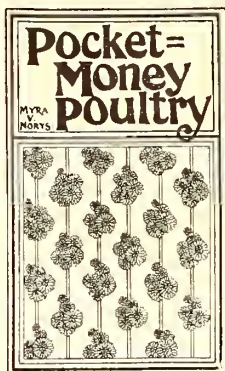
It has 248 pages and 72 reliable illustrations. This book is printed on finest calendered paper, handsomely bound in heavy covers, and weighs exactly one pound. This valuable book has twelve chapters on the following subjects: Introduction, Diseases of the Organs of Respiration, Diseases of the Organs of Digestion, Diseases of the Peritoneum, Liver, and Spleen, Diseases of the Organs of Urination and Reproduction, Diseases of the Brain, Diseases of the Heart and Blood Vessels, Parasites and Diseases of the Skin, Diseases of the Feet and Legs, Diseases Having a Tendency to Affect More Than One Set of Organs, and Injurious Habits and Vices. **Price, 50 Cents.**

GEO. E. HOWARD & CO.,
305-307 Tenth St. N. W. Wash., D. C.



DON'T SET HENS the same old way when our new plan beats it 10 times.
100 Egg Hatcher Costs Only \$2. Over \$4,000 in use. 1000+ tests. 5000 agents wanted for 1902 either sex. Pleasant work. Big profits. Catalog and 10c Egg Formula FREE if you write today.
Natural Hen Incubator Co., B. B., Columbus, Neb.

Pocket-Money Poultry.



The fourth book of THE FEATHER'S series is Myra V. Norys' latest production, "Pocket-Money Poultry." This book was written primarily for women who wish to supply themselves with pocket-money by keeping a few fowls. It begins at the beginning of the subject, goes into the details, points out the essentials, and makes the course of the successful poultry-raiser so plain that any intelligent person can follow it without difficulty. The experienced poultry man will, also, read this book

with both pleasure and profit. There are none so old and experienced but that they have still much to learn. Perfection in this as in other occupations is hard to attain, and those who are doing the best still find room for improvement.

"Pocket-Money Poultry" has the following interesting chapters: Women-Fowls-Money, How Much Capital? Choosing a Line of Work, The Breed that Wins, Artificial and Natural Incubation, Satisfactory Coops and Brooders, Mothering Chicks, The First Season's Work, The First Season With Fancy Poultry, Confinement or Freedom, The First Poultry-House, Feeding for Eggs, The Embryo Chick at Testing Time, Ducks and Geese, Turkeys for Pocket-Money, Squabs for Pocket-Money, Pocket-Money Possibilities, Pocket-Money Pointers, Supplementary Food Supplies, The Possible Value of Caponizing. **Price, 50 Cents.**

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The Latest Book on Homing Pigeons.



The demand for a perfectly reliable and practical book on the "feathered race-horse," has prompted us to publish our new book, "The Homing Pigeon." This book is 16mo in size, printed on excellent paper, and completely illustrated from cover to cover. It is a complete book in every way, and treats thoroughly on the history of the Homing Pigeon, breeding, training, and flying, as well as the many handy and business uses for which these birds may be used. It is

fascinating to breed Homing Pigeons, besides being a most practical study. Every detail is told in this book in a clear, concise, and explanatory manner; and the various writers therein have given us a mine of information. The reader is taught all about the selection of good breeders, the breeding of youngsters for racing qualities, training them to the best advantage; also the rules and conditions for flying birds in races, as well as for business purposes. It is a complete book in every way. Lovers of the Homing Pigeon can not well do without a copy of this excellent little book. **Price, 25 Cents.**

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A NEW BOOK ENTITLED

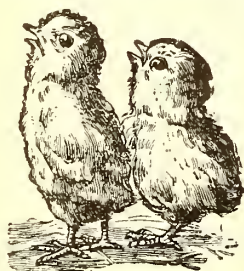
LITTLE CHICKS.

A Treatise Giving Hints on the Successful Care of Chicks, by Both Natural and Artificial Methods.

By MICHAEL K. BOYER, Editor Farm-Garden and Poultry.

The following subjects are extensively treated by the most successful poultrymen:

Raising Chicks in Brooders; Brooders vs. Hens; Broilers; Theories of Broodiness; The Newly Born Chick; Handling Brooder Chicks; Colors of Young Chicks; Teaching Chicks to Roost; Crippled Chicks; Time to Hatch Chicks; Summer Chicks; Back Yard Chicks; Weights of Chicks; General Care; Coops; Cannibalism; Diseases; Foundation; Feeding; The Houdan Chick; Broody Hens; Natural Incubation; Lice; Mating, Weight, and Color; Shade vs. Sunshine, etc., etc.



THIRTY-FOUR DIFFERENT METHODS OF FEEDING CHICKS.

A HUNDRED FACTS NOT GENERALLY KNOWN.

Special articles have been written for this book by M. K. Boyer, A. F. Cooper, G. W. Nones, W. W. Kulp, A. G. Duston, M. V. Norys, and P. H. Jacobs. Also numerous notes by other prominent writers.

Everybody should have a copy of this book for reference, as it is the only one ever published in the interests of little chicks, and contains valuable information found nowhere else. Over 160 pages.

PRICE, 50 CENTS, POSTPAID.

SPECIAL PRICES TO THE TRADE.

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Excelsior Wire & Poultry Supply Co.,

Dept. T, 26-28 Vesey Street,

W. V. RUSS, Prop.,

New York City.



A National Journal Devoted to Poultry, Pigeons, Birds, Etc.

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VOL. VII. No. 11.

WASHINGTON, D. C., AUGUST, 1902.

FIVE CENTS.

WATER-FOWLS.

Swans, Geese, and Ducks of Many Kinds.

Their Early History and Gradual Improvement Until They Fill a Position of Prominence as Exhibition and Market Fowls.

The swan might be classed as king of aquatic fowls. They are most beautiful and attractive and are usually only kept as ornaments for parks and gardens, but we find it recorded in 1849 that they were successfully bred in or near Paterson, New Jersey, and used for the table. The young grow very fast and are quite large at from three to five months. It takes about six weeks to hatch or incubate their eggs and the young must be looked after unless the parent birds are successful raisers of their own young. In the wild state all the food they need when young is right at hand in their grazing-grounds in or about the water where they live. The young of a well-tamed pair will come to feed with the old pair at any place that the food may be put for them.

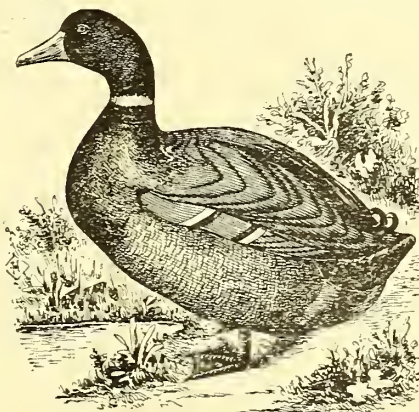
The White Swan and Black Swan are well known to all, and besides these there are said to be several other varieties. Our Wild or Canada Goose might be classed rather among the swans than the geese, and it is a well-known fact that the Canada Goose will mate and produce with other geese; whether the swan will or not we can not say. Again, the eggs of the Canada Goose will incubate in four weeks like the eggs of other geese. Herein is a vital difference as against the length of incubation of the swans' eggs, and while they may resemble the swan family in looks and make-up the other facts group them with the geese.

The Canada Goose, the Egyptian Goose, and the Wood and Mandarin Ducks might be classed as a donation or acquisition to our domestic water-fowls from their wild state, for they are all now kept in a semi-domestic state all over the country. Will simply call attention to them here and make more mention of them later. Again we might mention the old-time Musk or Brazilian Duck of South America, now called the Muscovy Duck. With these

we may also grade the Brant that was so plentiful with us in early days, and the Barnacle Goose of Northern Europe. With these and the well-known Mallard Duck we have mentioned about all the water-fowls that have influenced the quality of our modern standard water-fowls.

THE COMMON GOOSE.

The common or domestic goose may be the original of all our geese, or they may come from the Gray-Legged Goose.



MALLARD DRAKE.

If so, how shall we account for the gander of the common goose always being white, while the female is gray? But of one thing we are positive and that is that the Greeks and Romans had tame or domestic geese for all time, and as old as such records are so is the common goose. From them or their ancestors may or may not have come all of our several varieties or breeds of domestic geese, but be this as it may, the origin has not prevented the breeders of the old and the new world from improving and guiding our many kinds of

water-fowls into most useful and ornamental shapes and colors.

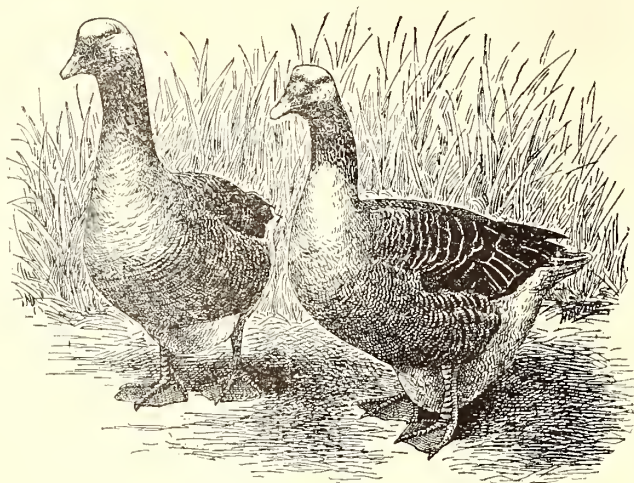
Like the barn-yard fowl, the common goose is fast disappearing before the advancement of the better breeds. The old, tough goose that fed by the roadside and in the lanes has given way to the well-favored specimens that are fed and grazed within fields that are set apart for their use. Then it was a scramble to find a goose in market tender enough to eat; now can be found the twelve- to sixteen-pound, well-flavored goose that cooks as tender as a broiler duck. This change has come about within the last century; in fact, more has been done for the improvement of all kinds of fowls and meat-producing animals within fifty years than for ages before, and the signs of the times would teach us that the work was only fairly begun. Each few years brings us something new and the advent of the Pekin Duck is so recent as to be still commented upon, while the origin of the Runner and Swedish Duck is just being told. Fast on the heels of every new thing comes a better, from the stately beef cattle to the smallest fowl or food-producing animal.

OUR STANDARD GEES.

As far back as the beginning of the Roman Empire we find records that show an effort to produce pure white geese by selection. It is natural to suppose that wherever the Romans went the white geese followed. The English had the white geese of early day, but from the Germans came the Embden Geese. In 1815 so few of them had come to England that the great writer Mowbray had not had the chance to eat of them. In October of 1821 some came to Boston and were called Bremen Geese, but, as we now have them, Embden Geese of the highest character are the result of careful handling and crossing presumably with the Foulouse, and the influence of that cross shows itself at times by throwing out gray feathers amongst the white. Within thirty years we have seen white geese shown at fall fairs as Bremen Geese; at the same time we saw Hong Kong Geese shown. (Now China Geese.)

EMBDEN GEES.

The Embden Goose, while not classed first in our Standard, is worthy of the highest consideration. It is one of our largest geese and has the advantage of quick growth and pure white plumage.



TOULOUSE GEESSE.

In the hands of our English cousins the Embden has been so much improved in all characteristics as to be almost a new breed. The present Embden might well be called the "new English breed of geese," as they are now sent from England all over the world, and the Germans themselves say, "Embdens were exported to England a long time ago, and how admirably they have done with them! They have surpassed us with this variety." The English-bred Embdens win over all others at continental shows.

The Embden is a large white goose. There is a legend that tells that the geese of early days were all gray but that a white swan came amongst them and mated with the gray ones and thus produced the white breed. True or not the sentiment is beautiful and in keeping with the old German fairy tales. These large white geese have the same shape as our common goose, are pure white all over and weigh as much as forty pounds per pair. They mature early and are ready for the market in a shorter time than are other large geese, they dress beautifully and their pure white plumage is more valuable as feathers than are the dark ones.

With us in America the Embden seems to be the favorite for market. The white plumage when dressed as green or young geese is in their favor, and their quick growth and fit condition for the table at an early day add to the profit of their production. We know that many contend for both the Toulouse and the African and for crosses, but the highest prices in the best markets favor the Embden.

TOULOUSE GEESSE.

These are the pride of France. From them comes the *Pate de foie gras*, so much enjoyed as a delicacy by the gourmands of the world. They gain their name from the city of the same name in Southern France, but like the Houdan and other fowls of France the Toulouse Geese in their native land are cultivated purely for market purposes. The finish for exhibition—fine feathers and increased size—has come under the handling of the English and American fanciers. Mr. Lewis Wright tells us that the goose is the result of breeding and feeding up the Gray-Lag and selecting the largest and darkest-colored specimens.

Miss Carnpain, of England, writes as follows: "It is twenty years since I started breeding geese. For years I

have been an exhibitor of Toulouse and win my full share of prizes. I started with a pair of the finest to be obtained, the gander a very long bird, the goose remarkable for color, very wide dupe and not showing the least tinge of brown in plumage, but a beautiful silvery-gray." Size and this beautiful silvery-gray color free from any discoloration are most important features for the exhibition Toulouse. None can be more at ractive than they when of high quality, large size, and rich color. They more than any other goose have gained the admiration of visitors to the show-room.

The looser plumage of the Toulouse adds to their apparent size, while, in fact, they are usually under the weight of the best Embden. Records show that at Birmingham Toulouse ganders have weighed thirty-six and thirty-eight pounds, pairs have ranged from fifty-two to sixty-two and a half pounds per pair, but the general average of the White Embden has been the best and most regular, and while the show weights of the present do not equal the above because they have quit showing them in a fattened condition, the average is in favor of the Embden if of the same age. Our Standard calls for the same size or weight in both varieties and we are unable to say which variety

with us gains the standard weights more readily. We demand twenty pounds for the gander and eighteen for the goose. In England the demand is thirty and twenty-two.

One of our prominent raisers of geese writes that of all geese he has found the Toulouse the most profitable. His reasons are so good we state them here. He writes: "They grow the largest, mature the quickest, are not so much of a rambler and flyer as are other kinds, and they do not take so readily to water. They grow more rapidly and accumulate flesh faster, and are not so noisy or hard to confine as other geese. Truly this should place them as the close rival of any or all known breeds. This is a fair sample of the favorite must be the best; or, in other words, we select the favorite from our experience of their true worth."

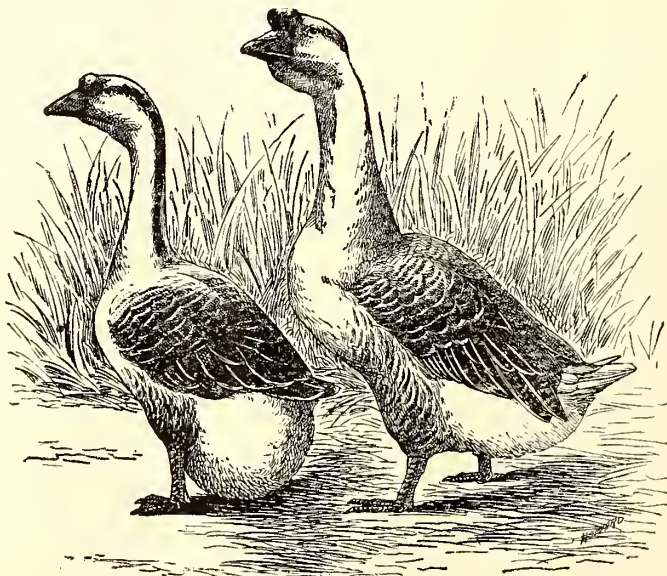
The male and female Toulouse are both the same in color and markings. Our Standard calls for dark gray top-color shading into a lighter color as it goes down to white under body-color. For the benefit of our readers we give below the full text of the English demand for color:

"In both sexes: bill, orange; eye, dark; neck, dark gray; back, dark steel-gray, each feather laced with an almost white edge; flights, a sound dark gray without white; breast, sound gray color, shading a trifle lighter to thighs; thighs, same as back; keel, to match breast; stern and paunch, white; tail, white with a broad band of gray across the center; legs and feet, orange."

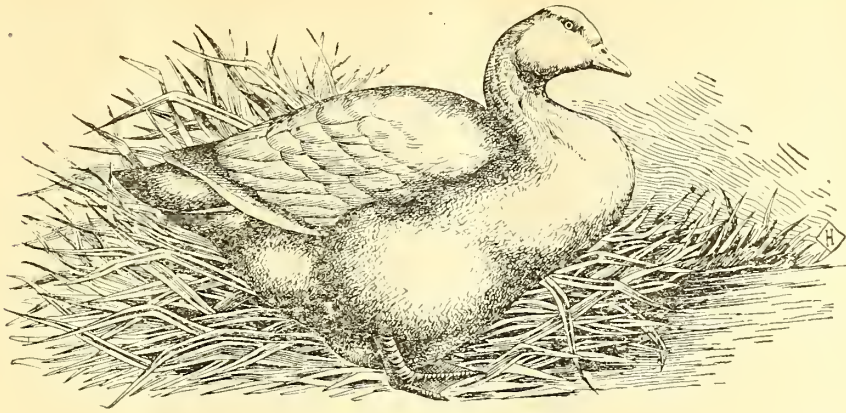
Such a description for color might well be added to our Standard; in fact, considerable attention might be given to a better description for all water-fowls.

AFRICAN GEESSE.

As we now have them the African is an American goose. If we might venture to intimate their origin we should point to the union of the Toulouse and the Brown Chinese, both of which they resemble in both shape and color. While their head and neck favor the Chinese in many ways they both have the bulk of the former as well as the dewlap. Photographs of the Brown China and the African when compared as well as the geese themselves tend to this conclusion, but whether this be true or not



GRAY AFRICAN GEESSE.



WHITE EMBDEN GOOSE.

in the African we have a most remarkable market goose.

The African Goose is placed in our Standard at the same weights as the Toulouse and Embden. Adult gander twenty pounds, young gander sixteen pounds, adult goose eighteen pounds, young goose fourteen pounds. The young goose of the Toulouse fifteen pounds, the Embden sixteen pounds. We are rather inclined to think these differences in weight are errors. The color of the African Goose is about like the Toulouse, only an inclination to a brown shading but not so dark as the Brown Chinese. Large numbers of these geese are reared for market in the East. They are used as a cross with the Canada Goose for producing mongrel geese. This is a hybrid that will not reproduce, showing conclusively the difference that exists between our geese and the Canada Goose, or as called, the "Wild or Canada Goose." (Better be called the American Swan.)

BROWN AND WHITE CHINESE GESE.

These might be classed as our Bantam Geese. The adult gander weighs fourteen pounds, young gander ten pounds, adult goose twelve pounds, young goose eight pounds. The adult Pekin Duck is fully as large as the young Chinese Goose. The Chinese are more beautiful when rather under size and well finished in shape, the longer and slimmer their necks and the closer cut the gullet the finer they look. The knob on their bill just at the head and complete absence of a dewlap are of vital importance. The color of the White Chinese is pure white throughout with orange-colored bill and shanks. The Brown Chinese has a darker colored bill and shanks; top-color, dark or grayish-brown shading lighter under the body. They are quite upright in carriage and very noisy with their continual cry which is peculiarly shrill and annoying at night. The least disturbance causes them to make more noise than will Guinea-fowls when disturbed either night or day. These geese should be trained into the most exquisite lines of form and color for exhibition. They are good egg-producers.

WILD OR CANADA GESE.

These are the natural geese of Canada and the North, and while it is the goose of this country it is also found in England and other countries. That they are not of the same manner of fowls as either the swan or our so-called common or domestic geese above mentioned, is proven by the fact that they hybridise with both. They are an attractive

goose, are recognized in our Standard and are now considerably bred on fine country places, where they will stay contented if pinioned—the first joint of one wing cut off. The best possible way to describe this goose is by illustration, which we herewith present.

THE HANDLING OF GESE.

Mate your geese prior to January, two to three females to one male. Better not to use a gander under two or over five years old. Geese will begin to lay often in January and continue till May or June. A sitting goose will come off her nest to feed. She covers her eggs with straw or down if she can when she comes off. She prefers to have her nest where she can be handy to water so she may take a bath each day. Other geese will not disturb her and the gander is very attentive to her while sitting. Embden Geese, or rather the goslings, are yellow when hatched. Some have a gray tinge in their down, and these darker ones are usually geese. Care must be taken to keep them from the cold and damp until fairly well started, but after that they can run with the mother-geese. At first feed them soft food, and as they advance increase their food. If quick growth is desired feed them strong or mixed food with some meat-scraps. They will live and do well on grass alone if they can have plenty of it, but for large or quick growth must be well fed. Bran and cornmeal is the best food for them; with this must go plenty of grit, grass, and water. Low, marshy ground that produces a profuse growth of grass is good for them, but they may be raised

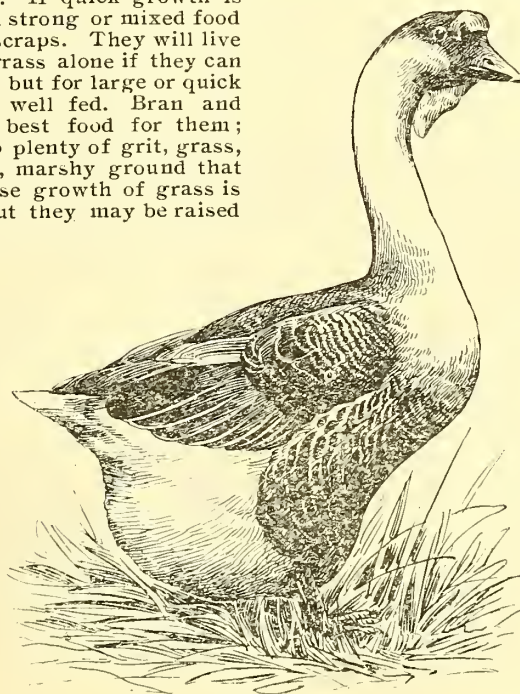
without the run of the field if provided with plenty of green food.

Breeding geese should have but little food other than grass. They become too fat to breed well if feed much. When properly handled their eggs hatch well. They are very true to their mates when well mated and will continue to live together for life when mated if not parted. It is best to keep good breeding geese so long as they produce well, but change the ganders when five or six years old, and put two-year-old ganders in their places and shut them up with the geese till well mated and contented together. Some geese decline a new mate after living years with one gander.

PEKIN DUCKS.

As we now have them the Pekin is truly an American duck, so changed and improved since they came from the Celestial Empire in 1873 that even the almond-eyed saint of Mott Street could not recognize them as the same as found about Pekin. As we have them they surpass those in England of the same breed, if we may draw conclusions from the writings of our English authorities, who say, "They are very large in frame, but the plumage so thick that they rarely weigh what they look in England, when they are pronounced small, not adapted for fattening in confinement, and dry in flesh." This alone is evidence of the marked difference in them there and here. As we sat at table enjoying a tender, young Pekin a short time since, we remarked to the raiser, "How can it be possible that our English cousins call them dry meat!"

To farther consider this question it is well to know that the English Standard calls for ten pounds at six months old for an Aylesbury drake and nine pounds for a duck. When compared in this way we more readily understand what is meant when they call a Pekin small. The Pekin Duck has a peculiar form of its own, both as to carriage, shape of body, and the flat or cut up appearance behind, and while our standard-makers



BROWN CHINESE GOOSE.

have not given us any set rule for color, the Pekin Duck is white that has a creamy shading; it is not absolutely white like the Aylesbury or our white fowls. The rich color of beak, shanks, and skin naturally prevents pure white plumage. Some fairly white-plumaged specimens are shown, but the natural color in flocks is of the creamy tinge.

In describing the Pekin Duck Mr. Lewis Wright states that it is now fully recognized that canary plumage, deep orange bill and legs, and erect body make the true type for the Pekin. While we can not quite admit this as our standard we must admit it is a fairly good description of the general run of these ducks in flocks for market breeders. Both here and in England the Aylesbury cross has been used to improve for exhibition, but this in many cases has failed, for it whitens both bill and shanks and injures them for exhibition.

The Pekin is a non-sitter and a prolific egg-producer. Some claim for them so many as 150 eggs per year. There is considerable lack of fertility in their eggs, as there is in chickens' eggs, caused, we presume, partly from the unnatural state in which they are kept aided by the large continual egg-production. When we mention lack of fertility we might better say quite a per cent of the eggs do not produce living ducklings, many failing to mature the same as with chicken eggs.

The Pekin is prime favorite for market ducks of all kinds from the broiler to the roasting duck. None with us have the same favor with raisers who sell so many thousands to the markets of our large cities; in fact, they have been so universally adopted as to exclude almost all other breeds.

AYLESBURY DUCKS.

This is the most in favor abroad as a market duck. A few years ago they were raised exclusively in England for market ducks, but of late years they have divided the honors with the Pekin. They are a long-bodied duck, of horizontal carriage; their legs are set close to the middle; they have a long, deep body with very full breast; they are whiter in plumage than the Pekin and have flesh-colored bills and orange-

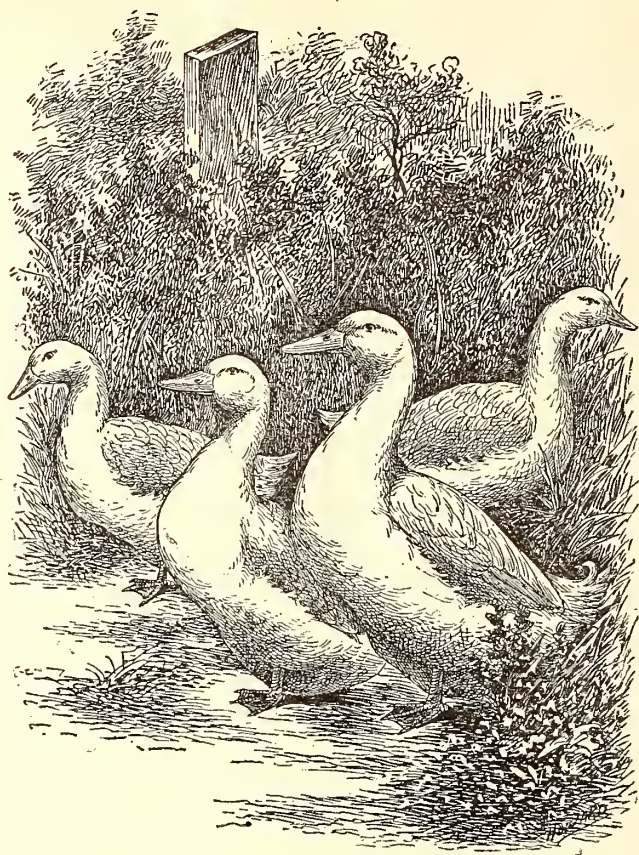
colored shanks. They should be pure white in plumage but when neglected and allowed to roam about and breed naturally both their bill and plumage become rather of a yellowish tint. As an exhibition duck they are beautiful when at their best. Very large in size and handsome in appearance, it is not unusual to see the best of them shown at twenty pounds the pair for young ducks, but few of the best are seen with us and it would be a feather in the cap of some well-disposed person to have them give attention to the careful rais-

ing of these and the Rouen as exhibition water-fowls.

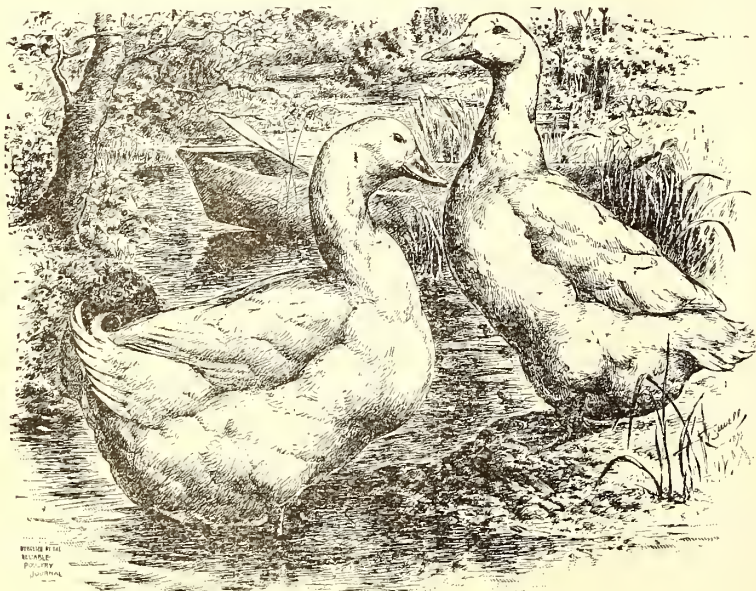
ROUEN DUCKS.

Our personal preference would be for the Rouen that is so seldom seen with us in America. For the instruction and benefit of our readers we give below Mr. Lewis Wright's description of them:

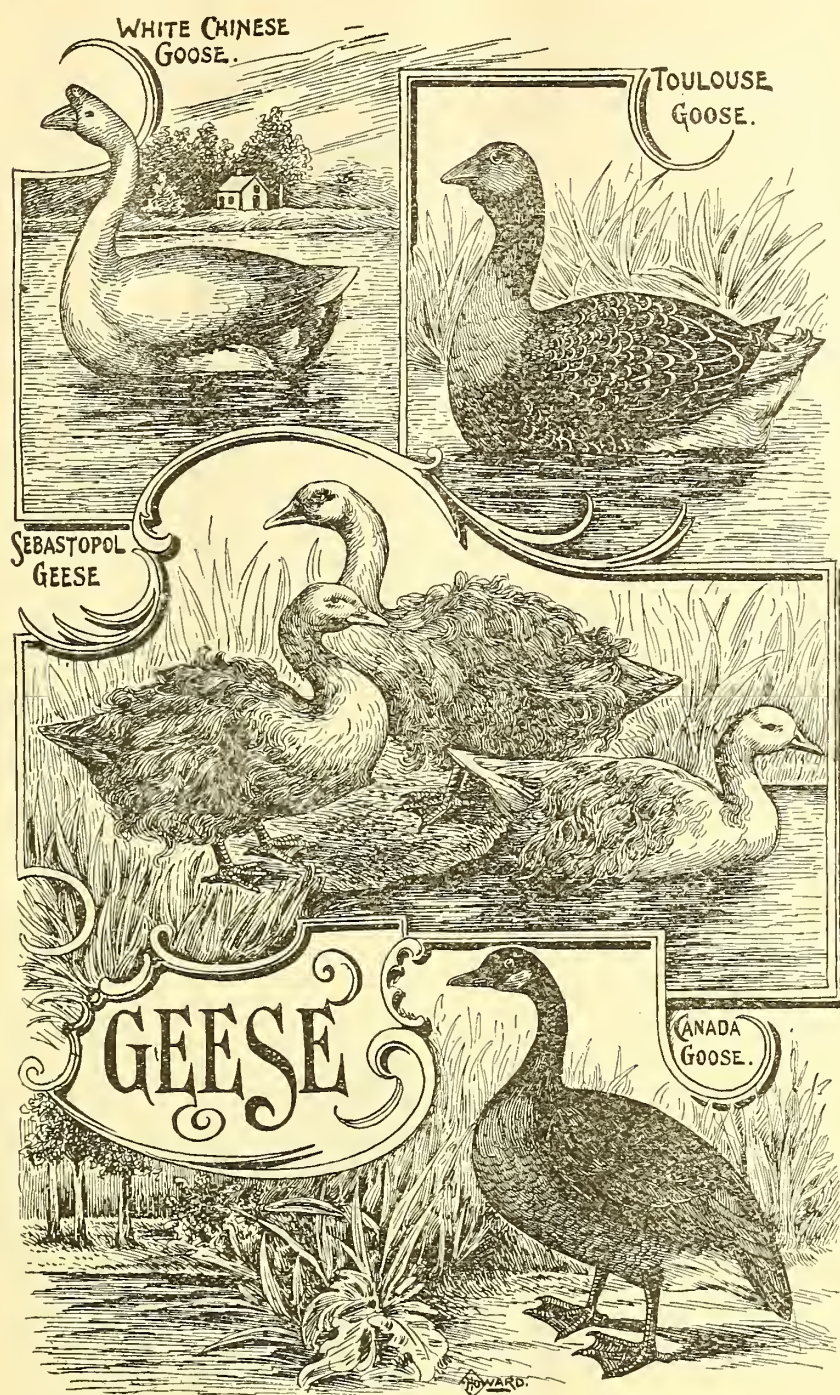
"The Rouen Duck closely resembles the wild Mallard in its plumage, except that this has been bred darker and richer. It is very probably correctly named from the city of Rouen, as ducks more or less resembling it in colour are still plentiful in Normandy, though not bred to such a precise standard of feather, or so massive. In general conformation the Rouen is somewhat shorter and deeper in body than the Aylesbury, and considerably deeper in keel. The bill should be long and broad and straight, as in that breed, that of the duck, however, being rather shorter than the drake's. The drake's bill should be a greenish yellow with a black bean at the tip, lead-colour amounting to disqualification, and too bright a yellow being also disliked. The head is a rich green, glossed with purple, which extends down the neck to a collar of pure white; this does not quite meet at the back, but must be clear and distinct so far as it goes. The breast is a rich deep claret extending down well below the water-line, and free from the fine white lacing which is called by breeders 'chain armour.' There it joins the delicate French grey of the flanks and under parts, which should extend to under the tail, any pure white under the tail being a 'great objection. This French grey is minutely pencilled all over with fine



AYLESBURY DUCKS.



PEKIN DUCKS.



black lines. The back is a rich, greenish black, the curls in the tail being a dark green. The wings are a greyish brown, with a 'ribbon-mark' across them, which must be a very bright and distinct blue, edged on both sides with black and white bands. The flights are grey and brown, white in a flight-feather being highly objectionable. The drake's legs are a rich orange.

"The bill of the duck is of an orange colour, with a splash of nearly black upon it, two-thirds down from the head, but not reaching the base, tip, or sides; this colour, however, changes during the laying season to a dirty brown, and sometimes they become almost black all over. The head is brown, with two distinct shaded lines on each side, running from the eye down to the darker part of the neck. The breast is brown,

pencilled over with dark brown; the back pencilled with very dark brown, or black glossed with green upon a brown ground. This pencilling must be very distinct, though judges differ somewhat as to the shade of brown which should form the ground-work. The wing has a ribbon-mark, as in the drake, and the legs are like his, orange, but of a dusky shade.

"Rouen ducklings when hatched are brown and yellow. When first feathered the drake has the same plumage as the duck, but at three months or soon after begins to moult into the male colours. The following summer and every summer afterwards, about June or July, he moults temporarily into very nearly the sombre garb of the female, until late in the autumn he resumes his male plumage again.

"In mating Rouen Ducks for exhibition, the breeder should look to markings, and shape and size of frame, rather than weight, a drake of 7 lbs. being quite heavy enough to breed fine stock, and if more than a pound or so heavier than that, being seldom so vigorous and fertile. He is better not over eighteen months old, but the duck may be older. Dark drakes mated with dark ducks generally produce the best coloured drakes, and a dark drake with light but well marked females the best coloured ducks; thus one pen can be made up very well, with ducks of different shades. Sometimes a fine drake will come with his wing twisted; such a bird, if of good strain, need not be rejected for breeding.

"Rouen Ducks are hardy, and delicate in flesh, and fully as large as Aylesburys; but they are not such good or such early layers, and do not mature in size nearly so quickly. Hence they are not so well adapted for a spring trade, neither are the feathers so valuable, nor does the carcase look so nice when plucked as the white-feathered birds. The heavy keel is also somewhat against them. For a later market, some think that they make finer birds. Some portion of Rouen blood enters very widely into the common coloured seen in farmyards all over the country."

(To be continued.)

Booted Bantams.

Booted Bantams have been neglected of late years in this country. Long-legged White Cochins are too often shown for Booted Bantams. The shape of the Booted Bantam is more erect than the Cochin Bantam, their legs are longer and they have vulture hocks. If all these points are considered and specimens not having vulture hocks and white shanks disqualified we would have better specimens in them. In England they have both solid white and solid black Booted Bantams and some of them, if we may judge from illustrations, are grand, fine specimens. All these strange kinds of bantams might be taken up by some one and it would give them a monopoly of them in this country.

Any kind of bantams will sell if they are good quality, and the culls make fine broilers, so it is quite as profitable to have them as any other fowls. If we could only get to the point of having fine quality in any or all kinds of fowls we would always get a profit from their breeding, but the trouble is that there is too much poor stuff and not half enough good all the time and every where. If this were changed it would be better for all.

Barred Plymouth Rocks

White Wyandottes

We have had a good season, and the result is that we have a large number of the finest birds we ever raised. We are in position to furnish show birds for the Fall Fairs and early shows. Fine breeders in any quantity desired. Prices low, quality of stock considered.

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SELECTING FOR EXHIBITION.

Have an Eye on the Most Thrifty for Exhibiting.

It is never too early to plan for the future and no time is better than the present for selecting the specimens that we hope to win the honors with this fall and winter. Have an eye on your growing stock and select from them those specimens that show the greatest amount of vigor and thrift, for such are almost certain to have full health and a good condition, and with this usually goes size and well-finished plumage. Condition and vigor are the true key to health and with this most always goes that finish of form and feather that makes the superior exhibition specimen.

It is quite possible at this time to select all such and give them special care and attention. If put apart in a colony to themselves they will do better, so will the others, for these thrifty, sturdy specimens are quite apt to run over and abuse the less vigorous and are sure to get the best of everything, and for these reasons it is best to have them in a colony to themselves. All these little points may be considered and acted upon during the hot days of August, and the completion of same will be the first step towards preparing them for exhibition. As we told you early in the spring the time to begin to prepare for exhibition was when the fowls were mated. That time having passed it is well, however, to think of this all winter so as to have it in mind when mating-time comes again. Ever remember that the vigor and high qualities of the breeding stock have the greatest influence over the young chicks, as have the bad qualities and shortcomings. All these influence the chick through life for or against high qualities. Line breeding is the perpetuation of qualities sought, so keep in mind for all future time the fact that you should have in the parent birds the same desirable qualities you seek to have present in your young chicks.

With this in mind select from all you raise those that seem to have these same desirable qualities most marked in them, for by so doing you pave the way for a true type in your flock. Should you have selected the best and truest type you may have hope for improvement each year, and your best chicks should mature into fine exhibition specimens. Therefore it is best to select them early and begin to give them special care, for the best are none too good for the exhibition or breeding-pen. Always aim to keep the very best for yourself, for in so doing you must go forward and gain considerable each year. Sell all but the best, hold fast to them for they are the gold of your flock.

Pay special attention to the feeding and housing of these. Do not crowd nor hamper them by day or night. Keep well in mind that the bad effects of one hot night in an over-crowded coop will set them back at least a week, and if continued in it may spoil them for the very purpose desired. There is nothing more harmful than this. Then, again, see that they have an assortment of the best kinds of food, and a good grass run by day with plenty of shade. This is the next step to success and all

is of vital importance to the prospective winners of the season.

To have a well-finished and substantial building it must be well built from the foundation up; the same with a well-finished show specimen, it must be built from egg to finish, and part of this is the care it will receive for the next sixty days at your hands. Two friends in the poultry business who live within sight of each other might be used as a sample for instructions in show preparation in advance. During the unusually hot weather of last summer the one paid no special attention to his young or breeding stock, but smiled at the other who put up all manner of shelter from the sun for his growing birds. When winter came the one who took the special care of his stock had the pleasure and satisfaction of having his birds win the largest share of all the prizes in their classes.

No truer saying than, "There is no excellence without very great labor," and this applies fully to the rearing and completing of high-quality fowls for exhibition. You must keep everlastingly at it to bring success in this line. No one has or ever will make a success with high-class poultry who has not learned the absolute necessity of untiring energy and attention to the growing and finishing of their young stock. Herein lies the first secret of success and the time is now at hand to bestow all the good care possible upon your young stock that has been selected as we have stated above.

Do not shut the young stock away from the air. They can and should be shut in and away from all kinds of danger from dogs, cats, or vermin during the night, but the front of their coops should be of wire netting and open for air and circulation. Such coops should be used for them till the cold of winter drives them into closer housing. The ideal spot for growing a show finish is the open air when the fowls can have the run of low underbrush, where they can have shelter from sun and wind, can feed on the wild berries and small nuts, bugs, and worms, and burnish their plumage amongst the brush. Here they gain the rich, bright flush of nature that can not be equalled in any other way. The nearer we can come to such surroundings the better for the stock, and such treatment assures the finest of constitutional vigor and health.

As the time of molt and growing of their final winter coat comes on for both old and young Nature can be aided in her work of renewal, and color may be influenced through their food. If you have white fowls do not feed them any yellow corn, iron, or raw meat; feed them rather white oats, white corn, wheat, and beef-scraps. Yellow corn and iron will tinge or discolor their plumage if fed during the molt, and the raw meat has so much blood in it and the blood of cattle is so strong in its color as to injure pure white plumage of fowls in molt. After the feathers are full grown and strong these foods will not injure them, for the feathers are made and the color set. It

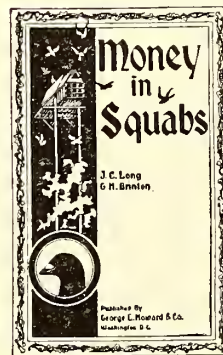
is only during or just prior to the growing of new plumage that these foods have this undesirable influence.

An experiment made by Mr. James E. Rice on White Leghorns is as follows: One lot was fed all the time from young chicks till a year old on yellow corn, the other lot all the time on white corn; when the experiment was ended after one year, the one lot was very white in plumage, even the beak and shanks quite light in color, while those fed on the yellow corn showed the yellow cast of plumage, beak and shanks quite yellow. When turned with the whole flock of two hundred it was quite easy to pick the very white ones from the balance of the flock. Avoid all food for white fowls intended for exhibition that may have a tendency to throw a yellow cast over the plumage.

For solid black fowls just the opposite is the rule. Iron, flaxseed, and raw meat are good for them. All this has the influence to bring the rich, glossy plumage, also to make their combs grow faster, so we must be on the watch not to push the combs too prominently with these foods. While kept out in the cool coops during the fall and early winter months there is not so much danger, but if continued in when kept in warmer quarters the combs will come quickly. Often we see the combs of both males and females grow quickly in a warm show-room. This is caused by the heat influence upon specimens that have been strongly fed on stimu-

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A Practical Treatise on Raising Squabs for Profit.



The most interesting and the only practical book published on raising squabs for market, is our book entitled "Money in Squabs." This book has had a most generous sale during the past year, greatly exceeding the expectations of the publishers, and is, without doubt, the only reliable publication of its kind. "Money in Squabs" treats of every topic pertaining to pigeon raising, and is illustrated with the most modern and practical ideas for housing and breeding pigeons on a large as

well as a small scale. You will surely be interested in the industry after reading this book, and the information gained will be worth many times its cost to you. "Money in Squabs" contains chapters on the following interesting subjects:

Introductory, Breeding Houses, Breeding Stock, Distinguishing Sex, Food and Feeding, Water, Salt, Nesting Material, Manure, Breeding and Management, Dressing Squabs for Market, Shipping and Selling, Diseases of Pigeons—Canker, Cholera, Egg Bound, Enteritis, Going Light, Roup, Small Pox, Sudden Colds, Wing Disease, Worms—and Douglass Mixture. Some of the illustrations are: Full-page drawings of Homers, Runts, Dragons, and Duchesse Pigeons, Plans of Single, Double, and Continuous Houses for Breeding Squabs, Arrangement of Aviaries to a Garret Room and to a Barn, Plans for Building a House in the Back Yard, Plans of Nests, Perches, Mating Boxes, Bath Tubs, Drinking-Fountains, Salt-cat and Grit Boxes, etc., etc. This book is thoroughly practical, reliable, and of untold value to all who are interested in raising pigeons, for profit or pleasure. **Price, 50 Cents.**

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lating foods prior to the show and while kept in cool places. As soon as the growth of plumage is complete all of the rich, strong foods should be sparingly fed. Rather depend upon corn, wheat, oats, and bread.

These rules for feeding can be called step number two in the preparation for the show-room. When properly followed the specimens should be so well grown by show-time as to be in full weight without having them too fat. If well grown to full size and in perfect health they will show the required weight without heavy feeding during their preparation for the show-pen. Fowls that are over-fat are inferior show specimens. Hens so fat that they gasp for breath when handled in the show-room should not win a prize, and they seldom do under a veteran judge who knows his business well and exercises it.

Grit, broken charcoal, and vegetable food are absolute necessities. The more food they have the more grit do they need to grind it and the more vegetable matter to balance it. Charcoal has an influence for good both in the crop and gizzard. It is a sweetener, as is soda for a sour stomach in man; it also contributes carbon to the system which is beneficial under heavy feeding. All these little points aid in winning the honors later on by contributing to condition that is of such vital importance in the show-pen.

Just a few more pointers in this line and you will have all necessary guidance for the hot days of August and September. Water in plenty and clean and fresh is of absolute importance always. If this be neglected irreparable harm is done. Pure water is absolutely demanded at all times if we hope to grow them to their best. They can not soften the food in their crops without it, they must have it to do the proper work of grinding and assimilating their food. Every little while they will run for a little and when deprived of this as needed they will take entirely too much when the opportunity presents itself. For these reasons a full supply should be always at hand for them to help themselves. Once again will call your attention to the necessity for shade and plenty of room in their coops at night, which should have full supply of air and good ventilation.

Those who will give this care and attention to their fowls will be amongst the honor-winners of next winter, while those who fail in these attentions will not, and there is no mistake in this. Those who raise the exhibition fowls and show or sell them for others to win on are of this careful-attention class who succeed in all they undertake. It is neither luck nor good fortune but close, careful attention that gains the position we all desire to reach.

Following these pointers on growing your stock we tell elsewhere how to care for and finish for the show, including the washing of fowls and all the little pointers that add beauty and finish to the show specimen within the line of honest preparation for the show-room.

Shipping Poultry.

Poultry should not be packed until thoroughly cooled. Pack in boxes with plenty of straw between each layer. Pack the box full and put plenty of straw on top to prevent disarrangement during transportation. It is a good plan to wrap each fowl in brown or white paper before packing.

Club Meetings and Displays.

The interest in poultry clubs has been greatly advanced by their annual displays at some one of our leading shows. At Philadelphia last winter the Wyandotte and Minorca Clubs' show of fowls was a wonder. This interest was worked up by the clubs' secretaries and other members. At Boston the Rhode Island Red Club, the Cochon Club, and the Jacobin Club displayed enough interest and enthusiasm to have run a fall campaign, and the same is true of some one or more of the clubs at all our shows. The Fantail and Game and Game Bantam Clubs that meet at New York have built up the birds they work for beyond all that might have been hoped for.

Now what is the cause of this? It comes from the combined efforts of a large number, all of whom are pulling, pushing, and working for the one interest that the club fosters. The club becomes a trust or combine on that one breed and pushes it into public notice to the advantage of themselves and other breeders who foster this breed or variety. This is the way to gain greater prominence and popularity for your fowls. Join your efforts and help all your can by bringing into prominence the fowls you prefer.

There are other benefits obtainable through these clubs, and of these none is of more importance than the improving of the breed description in the Standard. This has been done to a limited extent and should be more fully attended to. If in the future there is to be any fault found it should be laid against the clubs, all of whom have been invited to improve the description of the breeds and varieties they stand for so as to have them ready for the next revision of the Standard. If the clubs fail in this no murmur should come from them or their friends against the Standard-makers.

Breed characteristics or type should have the greatest attention. Establish in your mind just what is to be desired for shape or type in the breed you favor or represent, have this fully and properly settled, beyond all question, then have the description so worded as to describe this type, so that no mistake can be made as to its meaning. If this type is to be described or presented by an outline or black and white illustration, do not accept the drawing until it absolutely presents on paper the true type as the club would have it. Once and for all let us have the true type for each breed settled beyond all question.

There is much less trouble to tell of color than of shape, and it is also very much easier to judge color than shape. We know full well that the breeder and exhibitor favors that color which his fowls possess at the time shown, but this preference is quite apt to change should the shade of color on his fowls be different another year. But even this should not govern us in describing color. We should all be a unit on color-description. This should be settled quite easily as to printed description, but when it comes to color-plates, that is another thing. In this the club members all unite to attempt to tell what they want, while the printer labors to approach a living color on paper with inks.

Just so far as you are astray in color-description and in sample color selected, that far and farther away will the

printer be, because the ink can not make living feathers upon the flat surface of the paper. The shape, the ovals and shadows of the living feathers do not come upon the paper to equal life. As we fall short of this so do we fall short of the true color and shading of the living specimen, and in so doing we set up as a model for the Standard that which falls short of the living specimens it portrays.

For all these reasons the work of the clubs at their coming meetings will be important, and they should be largely attended from all directions. Come to these meetings, one and all, and be part of the action that is taken. Don't stay away and find fault afterwards. Do your part well and then you will have swept aside all chance for future trouble. The way to have things right is to make them right in advance, do this and you will be happy; fail in your duty, and then you may not have the good work done that should be done. Let every man do his part and all will be well that ends well.

The Feather's ART PICTURES.

Our collection of beautiful poultry pictures is unexcelled. We have prepared these plates at considerable cost and do not hesitate in saying that they are the best art pictures of poultry ever published. Many thousands of them have been sold, and everyone interested in poultry should have them in their homes. They are printed on best quality of paper and suitable for framing. All lovers of poultry should by all means possess these beautiful art pictures. Following is a list of the pictures on hand in colors and half-tone engraving. These are sold in sets of six for 50 cents. Select any six of the list you may wish for 50 cents, or a set of twelve for 75 cents. When ordering a set be sure to give the numbers of the ones you want.

List of Color Pictures.

1. Light Brahma.
2. Trio White Wyandottes.
3. Pair White Wyandottes.
4. White Wyandotte Male.
5. White Wyandotte Female.
6. Buff Wyandotte Male.
7. Buff Wyandotte Female.
8. Silver Laced Wyandotte Male.
9. Silver Laced Wyandotte Female.
10. Golden Laced Wyandotte Male.
11. Golden Laced Wyandotte Female.
12. Partridge Wyandotte Male.
13. Partridge Wyandotte Female.
14. Barred Plymouth Rock Male.
15. Barred Plymouth Rock Female.
16. Buff Plymouth Rock Male.
17. Buff Plymouth Rock Female.
18. White Plymouth Rock Male.
19. White Plymouth Rock Female.
20. Black Minorca Male.
21. Black Minorca Female.
22. Black Langshan Male.

Half-tone Pictures.

23. Barred Plymouth Rock Male.
24. Pair Black Langshans.
25. Pair Buff Leghorns.
26. S. C. Brown Leghorn Male.
27. Pair Silver Spangled Hamburgs.
28. Pair White Crested Black Polish.
29. Pair Barred Plymouth Rocks.
30. Buff Cochon Female.

Light Brahma Special.

This new picture is our greatest triumph. It is 12½x18½ inches and is most attractive for framing. The plate is what is known in art as a duograph, and is a most perfect representation of steel-plate engraving. The subject of the picture appeals to all lovers of poultry, and makes a picture that will be appreciated in any home. The scene is a beautiful girl standing in the midst of a flock of Standard Light Brahmas, with the farm-house and orchard in the distance. It is a sunshiny scene and appeals to the eye at sight. This great picture securely mailed in tube for 25 cents each, five for \$1. Larger quantities at special prices.

Framing Pictures.

We have made arrangements for framing THE FEATHER'S ART PICTURES at greatly reduced prices. We have a beautiful gold frame, 10½x14 inches, suitable for the above pictures, with mat and glass complete for 75 cents each.

When making remittances do not send stamps, but send P. O. Money Order, Express Money Order, Registered Letter, or Bank Draft.

GEO. E. HOWARD & CO.,

305-307 Tenth St. N. W., Wash., D. C.



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GEORGE E. HOWARD, Editor.

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TO AGENTS. We offer the most liberal terms to agents, and our plans and arrangements are so liberal this season that there will be money in acting as a representative of THE FEATHER. We want new agents in every neighborhood in which we are not already represented. It will pay you to write us at once and get our terms. Good profits are to be made from the sale of our publications, and it will pay you well to investigate. Write us for full particulars and free outfit.

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305 10th Street N. W.,

Washington, D. C.

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AUGUST, 1902.

The Beginner.

The poultry beginner is distinctly in a class by himself. He is one of those individuals who rushes madly into the thing without stopping to think where he is going to land. Poultry raising with so many beginners is like a spell of sickness; the fever is on him strong, so strong it is difficult to get him to take his medicine rationally. Sooner or later he, however, gets a dose that does him lots of good. The severest cases come from the fellow who never raised a chicken, starting in with a half-dozen or more breeds, when he is totally incompetent of successfully managing a single breed of fowls. The same fellow would never tackle a half-dozen stores or other kinds of business at the start. But the hen, the poor hen, is terribly underrated, and he wades into her both right and left to his own discouragement sooner or later. It is as essentially necessary to know how to handle fowls properly as it is to run any other kind of business, or to raise the other kinds of live stock on the farm. If you can successfully handle a few fowls your chances are good for succeeding in the poultry business. There is money to be made in keeping fowls; there has been and will be more money made with poultry proportionally than with any other kind of live stock. The hen must be understood; she's a business proposition that needs to be looked into—when you once know the hen you wouldn't part with her for anything. The beginner must feel his way in the business, carefully learning the details as he goes and never shirking his duty and always leaning towards the hen that she might succeed. Base your calculations on your own efforts, as the hen can only do so much without your help, and you not only help yourself but the hen as well.

An Illustrated Standard.

It is proposed by the American Poultry Association to look into the advisability of issuing an illustrated Standard. The committee in charge of same should be encouraged in their work, and, if possible, have flattering reports at the next meeting of the association. The task seems an easy one at first glance, but one can not realize the number of contentions to be held before the work is installed. Strange to say there is barely a single picture published that has the approval of the breeders of its kind. Each breeder has an ideal which differs from the other fellows' ideas as to what the breed should be, and many of our expert, up-to-date breeders go so far as to breed birds to suit the fancy of the judge. Many incidents are known of two or more types of a breed in the yards of a single breeder, and at show-time it is no trouble to accommodate a wide range of judges. Such a state of affairs is misleading and keeps a continual guessing on the part of the breeders. The sooner some established system is given the better off will be the fraternity. The Standard is the best we can boast of at present, but the elastic and indefinite phrases which it contains convince many of need of a better thing. Such words as "medium," "not too long," "rather thick," etc., hide a multitude of sins when one is judging or sizing up a fowl. There are a great many suggestions that may be made to the committee on an illustrated Standard, and THE FEATHER trusts their success will be immense. If we can get some definite pictures to tell just what is wanted more than half the battle in poultry raising will have been won.

Misleading Articles.

A reader and subscriber to THE FEATHER sends us the following letter which explains itself. The truth of the writer's words can not be questioned, and it is a pity that so much unreliable information should be served up to those interested in poultry raising. He says:

"Every thing has its place and so it is with our poultry and farm papers of to-day. Almost every farm journal has a corner given to poultry culture which nine times out of ten does more harm to the industry than good, as the writers are not up to date and these articles are read by a class of people that ought to have the best instruction possible for them to obtain, as they are the ones that can do a great deal of good to the business, for they have opportunities no other class of breeders has; namely, free range. The following I saw in a farm paper not long since which illustrates what I mean. An article headed 'Buff Beauties' with an illustration claimed to be Buff Leghorns, but they were Blue Andalusians. You could even see the penciling on the feathers, followed with a description of color like this. 'The color is probably obtained from an infusion of blood from the R. I. Reds. The cock has rich buff color and hackle and saddle so deep as to nearly approach a brown. The Standard gives for the tail a deep, rich buff or copperish-bronze. The rest of the plumage is lighter, white or black feathers disqualify.' You see this writer claims to give the standard requirements for Buff Leghorns and there are only two or three standard requirements in the whole description. Now this is where the harm comes in. A farmer reads it and says, 'That is true, for I saw it in a farm paper.' Reader, take my advice if you wish to keep posted; subscribe for some good poultry journal like

THE FEATHER, and when you read a description of any breed you can depend upon it as the real thing."

—S. J. P., South Jefferson, N. Y.

The Busy Season Is Near.

In a little while, within a month, the poultry season will have opened and the prosperous, active season 1902-3 will begin its history. Every indication points to a great future for the poultry, and the sales will undoubtedly be numerous and at "long" figures. These are our views on the situation as gathered from many sources. In pursuance with this belief we are making every preparation to issue the greatest and best numbers of THE FEATHER yet published. Indeed we may justly promise some real treats in poultry art and poultry literature. Numerous correspondents and writers of prominence have been engaged to give THE FEATHER'S readers the cream of their experience in poultry culture. The September number will be replete with choice articles and illustrations. The edition will be 10,000 copies, and this will be the minimum guaranteed circulation each month during the coming year. Those who have anything to sell should not miss beginning their advertising in the September number. At the low rate the investment can but prove profitable. Copy for changes and new ads should be sent in as early as possible to permit of good display.

At Your Service.

We would be pleased to have our readers take advantage of our offer under the department of General Management. Those who can should send us short, interesting articles on their experience with poultry as they find it. Others are always interested in the doings of their fellow-workmen, and no better place could be found to tell your story than in the columns of THE FEATHER. We have always claimed to be the friend of those who need our aid, and we never tire in hearing the troubles of our friends and patrons. When you feel uncertain as to what to do, write us, and if you wish an immediate reply, enclose a stamp, and if not the answer will be duly published in THE FEATHER. It is not necessary that your name be published, but we request it to show good faith. Remember, that if you do not take advantage of our offer it is no fault of ours. The columns of THE FEATHER are open to our readers generally, and we are more than happy to accommodate you with the best and most reliable information gratis.

Light Brahma Frontispiece.

The frontispiece of the September number of THE FEATHER will be the ideal male and female Light Brahma as adopted by the New England Light Brahma Club. This pair of beautiful birds were originally drawn by Mr. Sewell, and we have redrawn them for THE FEATHER to be printed in colors. It will be another valuable addition to our long list of popular pictures of fowls in natural colors. Our readers will appreciate this beautiful picture, and those who are not subscribers should be certain to have their name on the list for that number. This is a good time to begin your subscription and we will gladly welcome all that may come in.

ELM POULTRY YARDS Of HARTFORD, CONN.,

Are offering great Bargains in Breeding Stock of S. C. White Leghorns, S. C. Black Minorcas, Barred Plymouth Rocks, White Plymouth Rocks, White Wyandottes, and Light Brahmas. 3,000 chicks now growing for fall trade.

ELM POULTRY YARDS,

Box F, Hartford, Conn.

Testimonials.

"Never had better trade, and we are satisfied that our ad in THE FEATHER is doing us good."—BRADLEY BROS., Lee, Mass.

"THE FEATHER is giving good results. Had an inquiry from Porto Rico. I will want a write-up."—M. B. HICKSON, Lynchburg, Va.

"I don't care about missing any number of your handsome paper. It is the best one of its kind I ever had the pleasure of reading."—T. Fairservice, Haverhill, Mass.

"Egg trade has been exceedingly good. I reached the \$500 mark long ago. Some of my best sales came through THE FEATHER."—ELMER GIMLIN, Route 1, Owaneco, Ill.

"Please renew my subscription to THE FEATHER. It is a most valuable and useful paper for which accept my congratulations."—THORNTON F. EMMONS, Princeton, N. J.

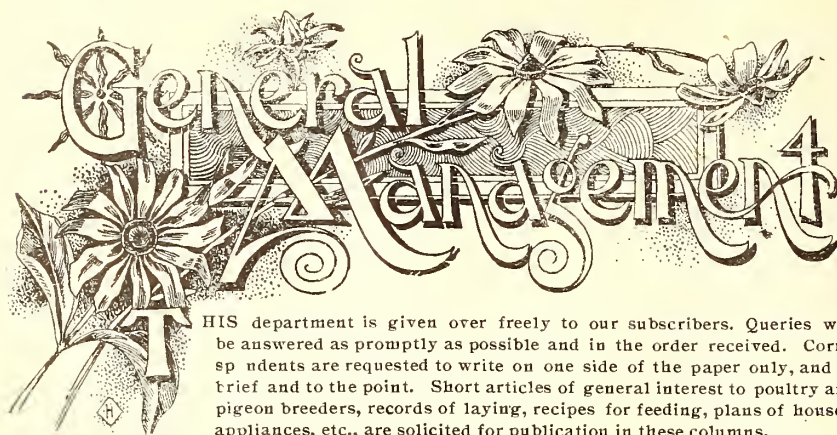
"From my ads in THE FEATHER I have bought and sold birds and eggs throughout the country, Cuba, Canada, Nova Scotia, Mexico, and Klondike. It is a wonderful paper as an advertising medium."—FERD. J. SUDOW, Amityville, N. Y.

"In reply to your letter of the 2nd would say I had sold all my pigeons from the first month's ad in your paper. The second ad which appeared will do me more harm than good for I am receiving from one to three letters a day from that advertisement. Your paper is certainly a great advertising medium for pigeons."—E. F. BARRY, Machias, Me.

Anthracite Minorcas.

For several years past this strain of Black Minorcas has played sad havoc with the prizes at our leading shows. Mr. Arthur Trethaway, Wilkesbarre, Pa., is the originator and breeder of the Anthracites, and his successes are phenomenal. At the past five club meeting shows, where the large Minorca breeders exhibited, he won as follows:

At New York, 1898.—First pen, third cock, second and third hens, and second and third pullets. At New York, 1899.—First pen, third cock, second cockerel, second hen, second pullet; Club \$250 trophy for best display. By permission the third, fourth, and fifth cockerels at this show were hatched from eggs he sold. The second cock and fifth hen he sold as cockerel and pullet. At New York, 1900.—Second pen, first and fifth cocks, first and third hens, fourth cockerel, fourth pullet; Club \$250 trophy for best display. At New York, 1901.—Second pen, first cock, second hen, first, second, and third cockerels, first and fourth pullets; Club \$250 trophy, third time; Directors' cup for best five male birds; The American Fancier's cup for best cockerel and pullet; and six other specials. At Philadelphia, Pa., the last club meeting, in the largest and best class of Minorcas ever brought together, seventy-one single entries and seven pens, he won first pen; first and second cocks; first, second, and fourth hens; first cockerel, and second pullet. By permission the first pullet at this show was bred and raised by Mr. Trethaway. He won twenty-three special prizes, including four silver cups, presidents' cup for best display; Jos. P. Hilloifer cup for best cock, hen, cockerel, and pullet; H. W. Billard's cup for heaviest cock and hen; S. Champion cup for best hen; special for five best males; special for five best females; special for best-shaped male; special for best-colored female. This proves the quality of his stock.



THIS department is given over freely to our subscribers. Queries will be answered as promptly as possible and in the order received. Correspondents are requested to write on one side of the paper only, and be brief and to the point. Short articles of general interest to poultry and pigeon breeders, records of laying, recipes for feeding, plans of houses, appliances, etc., are solicited for publication in these columns.

Chicks—Their Care and Feed.

Editor The Feather:

In treating the above subject it is necessary to start with the breeding stock, for you can only get good, strong, vigorous chicks out of eggs laid by healthy, vigorous, active hens, with a good male bird to head the breeding-yard, that you are well acquainted with. As the cock is one-half of the breeding-yard, make sure of him, for on that gentleman depends the fertility of the eggs and from the eggs come the chicks, and the hen that lays the egg must be a healthy, active, vigorous, well-shaped hen that has never been seriously sick since she came from the egg; then the breeding-yard starts in right to give you eggs that will produce strong, healthy chicks that will be a joy forever to the owner, and a satisfaction to the seller of the eggs, (or the owner if his hen produces them for him.)

Now that we have the eggs, I will tell you what I think is the best way to get the chick and my way of raising it. I always set three hens at the same time when I can get them. Having the three hens I examine them for lice. I find them there, and I get a box that will hold all three hens and paint the box with some good liquid lice-killer, giving the box a good coat on the inside, then put the three hens in it and keep them there for three hours, from 7 p. m. to 10 p. m. Then take them out and you will find some of the lice. Give the box another coat of the lice-killer and put the hens back in the box, cover it over as before and keep them there all night. In the morning put them in a box with a nest and some nest-eggs, cover them over and let them remain there until evening, then feed them whole corn and give them water and see that they go back on the nest. Now we have the hens ready for the eggs.

I use these double houses, Fig. 1, with yards for litter and chicks ready made and waiting. The houses are 2 feet square on the ground, 2 feet high in front, and 18 inches in back, with flat roof covered with tar paper. B is the door, and the hole for the hen to run out of is on the same side of front. C is a wire front made of 1-inch mesh wire, 2 feet wide and 10 feet long with a strip in the center. The back is against a board fence or can be made the same as the front. D is the partition strip with pieces nailed on the inside for the slide so the partition can slide up and down. Fig. 1-T is the partition. E, E are the two top covers for the ends and are 2 feet wide and 4

feet long. F is the center cover and is 2 feet square, making the cover 10 feet long the same as the front. G is the bottom board 12 inches wide and 14 feet long, and is used so you can raise the ground up 6 inches and then leave 6 inches as a protection for the chick against wind. H is two pieces of board 2 feet long and 12 inches wide, one of them on each side of the partition on which to place the feed and water-cans, K, K. I use tomato-cans cut down one-half and put water in two and corn in the other two. I raise the ground in the house six inches, the same as the yard. Make a hollow in the ground, put in cut straw and place the eggs in the nest, then at night go after the hens. Be careful and treat them gently. Place one in each house, close the front hole and fasten the door securely with the button and put water and feed in the cans, then let them alone. The third hen must be kept in the shed or some outhouse on her eggs until the seventh day. Then take an egg-tester and test them out, giving all of the fertile eggs to the two hens in the houses and set that third hen over with some more hens and repeat the operation. When the chicks hatch out give them all to one hen, if not too many, and reset the hen with others, but always give a hen chicks if you have set her twice. In this way you will get full value for the

sitting hen. After the chicks are large enough to take care of themselves give them the house and their mother the ax.

Now that the chicks are hatched we come to one of the most important parts of their existence—that is their feed. I have gotten the best results from cooked food for the first until they are six or eight weeks old and give them mostly Johnny cake. Mix one bushel coarse yellow cornmeal, one bushel sifted ground oats, one bushel bran, one-half bushel wheat middlings, and have them thoroughly mixed together. That is the foundation of this mixture. Take a quart, and to this add one quart of clover-meal, two quarts of boiled beef, chopped fine, (or run through a sausage-machine is better,) one gill of red pepper, one-half gill of table salt, one gill of powdered charcoal and three heaping tablespoonfuls of one of the good condition powders. Mix all of this together thoroughly with skim-milk, if you have it, in which you have beaten from six to twelve infertile eggs or fresh eggs, as they improve the bread very much. If you have no milk to spare, you can use boiling water, but skim-milk is the best. Mix it just as you would corn-pone for family use, and bake it in the oven until it is as dry as you can get it. Of this cake I feed for the first three weeks four times a day, at 6 a. m., 10 a. m., 2 p. m., and 6 p. m. At noon I give them a full feed of some green food chopped fine, all they will eat, and of the Johnny cake I only give them what they will eat up quickly and stop if they want more. Keep them hungry by feeding a little millet-seed, hulled oats, and cracked wheat in the litter of their yard, which should be cut straw or cut clover in about four to five-inch lengths.

After they are three weeks old I feed Johnny cake two or three times a day, cracked corn, hulled oats, and wheat in between, with a handful of millet-seed in the straw for them to scratch for, to keep them healthy and growing. You must keep the chicks warm, dry, and make them scratch so as to exercise them. Keep their food sweet and clean and always give them plenty of good, clean, fresh water to drink, and if you give them skim-milk to drink you will

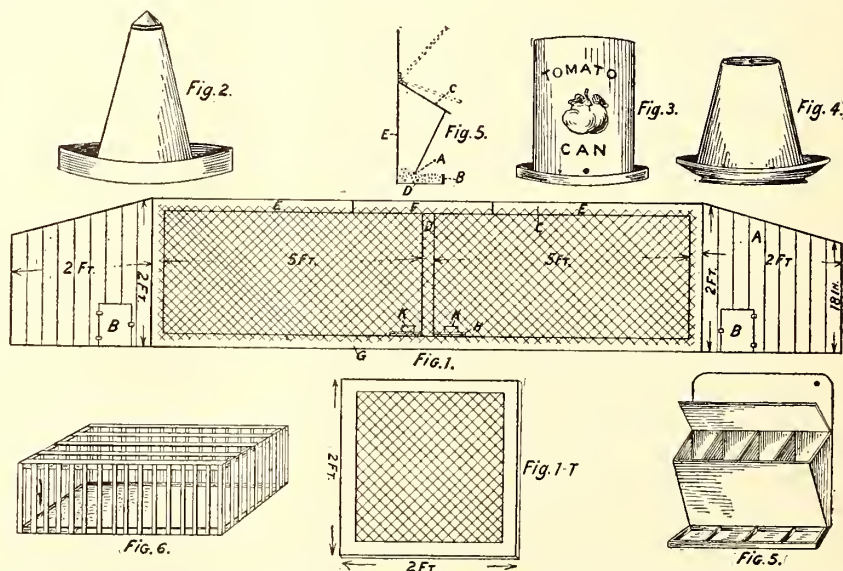


Fig. 1. Coop for chicks. Fig. 1-T. Partition slide. Fig. 2. Drinking-Fountain; sizes, Cone-diameter at base 8 inches, diameter at top 6 inches, with pan 12 inches in diameter, 2 inches deep. Fig. 3. Tomato-can drinking-fountain; tomato-can hole $\frac{1}{4}$ inch in diameter, $\frac{1}{2}$ inch from bottom, pan 1 inch deep, 6 inches round. Fig. 4. Flower-pot drinking-fountain; saucer and flower-pot; cut slit $\frac{1}{2}$ inch deep in pot, cover with saucer, and invert the pot. Fig. 5. Grit-box.

find it will make them grow like weeds. Skim-milk is better than milk that has not been skimmed, as in the skimming off of the cream you remove the fat from the milk, that makes it better for the chicks. If you use pure milk mix it two-thirds milk and one-third water.

Now we come to the feeding-troughs and the drinking-fountains, so as to save all the trouble we can and make feeding and watering a pleasure. For watering my old stock I use Fig. 2. It is a cone, at the bottom is 8 inches in diameter, and at the top A is 6 inches in diameter, from A to B is 3 inches to a sharp point, from A to the bottom is 12 inches, with a small hole one-quarter of an inch round and one and one-half inches from the bottom on the side opposite the seam. The pan is 12 inches in diameter and 2 inches deep. To fill it, fill the cone with water, place the pan over it, put one hand on the center of the bottom of pan the other on the cone, turn it upside down and set it on the ground and there you are. Fig. 3 is a tomato-can (empty) and a small pan or saucer and with a small hole punched in the side near the rim will make a fine fountain for young chicks, either for their milk or water. Fig. 4 is an ordinary flower-pot. Saw a slit in it about one-half inch deep, put a cork in the hole in the bottom, fill with water, put an ordinary saucer over it and turn it upside down and there you are again. Any old thing will do for a drinking-fountain, some people say, but I tell you if you want your chicks to have water or milk all day long and at the same time save yourself a lot of trouble, you must make some of these things for your chicks. Wash them out every time you fill them so as to keep them perfectly clean.

For feed-troughs we use the V trough—only the ends are made out of a piece of wood 4 inches square. On V we nail pieces of board 4 inches wide and from the point of the top nail a strip $\frac{1}{2}$ inch square the full length of trough so as to keep the chicks from getting into the trough. Fig. 5 gives two views of the kind of grit-box we use, and in them we have fine and coarse grit, fine and coarse oyster-shell, and in others we have charcoal about the size of corn or smaller. When I crush charcoal any piece that will go through a coal- or ash-sieve will be all right; then sieve it through wire gauze and the fine will do to go in the soft feed for the old stock or in the Johnny cake for the young chicks, so nothing is lost.

Fig. 6 is a coop slatted on all four sides and on the top. The sides are left 3 inches apart so that the chicks can be fed and watered in the coops and can be fed all you want them to have without being disturbed by the old stock, should you be compelled to keep them when there are old fowls.

To sum up my advice is to keep your chicks in a warm, dry place; give them their food a little at a time and often; wash and clean their troughs and drinking-fountains every day; keep water and milk for the young chicks before them all the time; make good, roomy houses for the chicks and fence them in so that cats, rats, minks, etc., can not get to them, and if given the proper care and attention they will be a pleasure to you. Get eggs from thoroughbred stock, buy a copy of the "Standard of Perfection," breed the very best there is to be had, and then you will

have something for your trouble that will make it a pleasure to raise chicks. These are conditions wherein you have to raise chicks with hens. There is less trouble and expense when you hatch with incubators and raise them in brooders, but of that some other time.

Should your chicks get the gapes mix equal parts of turpentine and linseed oil, shake well, and pour about four to five drops down the little hole at the base of the tongue and one or two applications will effect a complete cure. Should they get looseness of the bowels feed them dry food, keep them from water and give milk to drink instead. In dry weather give them a little sulphur in their food, and if there is anything else you would like to know, the Editor of this paper is well posted and can give you more pointers than I can, but I have tried in this rambling way to give you the results of a few of my experiments. I hope they may be of some use.—E. D. CROUCH.

For Winter Eggs.

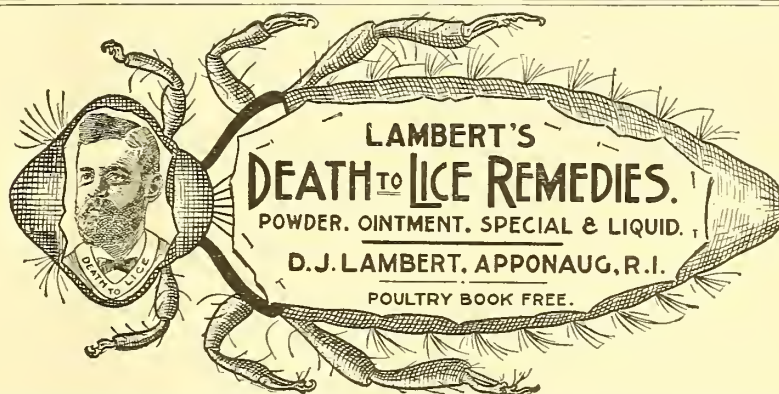
Well-selected hens, in properly-constructed houses when there is room for the hens to dig and hunt in the straw and dirt for the grain assures a winter egg-supply, providing the hens have to eat a ration like their summer ration, grain, greens, and animal food. This is what they need and must have if they are to produce eggs for profit; without all this they can not and will not produce the eggs. It is of no use to try to have a large yield of eggs in winter unless you will provide plenty of wheat and oats, some corn, plenty of green food and the needed amount of meat. About one-fifth of their whole ration should be animal food of some kind; ground green bone is good, meat scraps, blood, or any meat that is sweet and untainted. Tainted food will flavor the eggs. Good, sweet meat of any kind will do for the animal food. Next to this is the green food supply; of this they should have all they will eat and nothing is better than clover-hay cut small and put where they can eat all they want; cabbage and beets are good, turnips not so good, as they have a tendency to flavor the eggs.

Fattening for Market.

They have established in the West plants for the fattening of fowls by the cramming process. This must prove a benefit to all who have fowls to sell. There is no danger of it injuring the business. It must help the business in some ways; for the better the poultry the more will the people eat. The fact is that not one-third of the poultry that goes to market is what might be called good market meat; it is much of it poor and stringy. No one would think of sending an old, tough hog to the market so thin in flesh that the skin was loose on his body. A thin or poor lot of cattle would only sell to the feeders at low prices. While this is the case with cattle, sheep, and hogs, why should it be the reverse with fowls?

When once the fattening business is well established poor, ill-favored lots must be sold to the fatters or fattened at home, for the market price will be so small that it will frighten those who have them to sell, and the fatter will smile as he takes them in to cram them into shapely, nice market poultry. All this will give us better poultry to eat, for so soon as the people see what is being done they will go and do the same. Colorado fruit-growers proved that apples nicely packed in boxes like oranges would sell better than in barrels, so now all over the country they follow suit. As soon as nicely fattened poultry comes as the result of cramming stations all localities will have them as they have the creameries and milk stations. All this will come in time to our betterment.

It might be possible for many to have their own fittings for cramming, but it is a business that must be well learned and understood before it is a success. You must know all about it fully and thoroughly or you can not succeed with it. Go slow on the venture, study the method well, and try it in a small way before you go into it in a large way, but take time by the fore-lock and put all your market poultry into better condition before you sell it. A pound of corn will make as much meat on a chicken as on a hog when fed to fatten and you know the price of both.



The New Big Show 20th Century Inter-State Fair

Trenton, N. J., Sept. 29th to Oct. 3rd.

Big Premiums,

Cash Specials,

Single Entries.

McGrew, Drevensdt, Nichols, Ungerer, Stanton, Tiemann, and Kennedy will judge. Come to the Banquet for exhibitors and have a good time. Entries positively close Sept. 22nd. Don't fail to send for Premium List.

W. S. GLADNEY, JR., Sec'y Poultry Dept., Trenton, N. J.

Valley Farm Bronze Turkeys won half the N. Y. Show firsts.

Value of Dressed Poultry.

Editor The Feather:

Under this head in your July number was an article on "The Poultry Trade," and the value of dressed poultry that should teach us all the lesson we are so slow to learn, and that is the real value of the best, and so few seem to fully understand just what this term implies, or in my opinion there would be more of the better class and less of the lower quality sent to market.

The prices that we see published in the journals and papers of the day have no reference whatever to the class of poultry and eggs that would be called first class and sold for the highest price. Before going into details on prices and quality will say that I have visited the markets of New York, Chicago, Philadelphia, Boston, and Washington, for the purpose of seeing and learning of poultry and its products in the markets, and find that the very best generally graded is found in the markets of Boston; in all kinds of chickens, turkeys, ducks, and geese, also eggs, the average is better in Boston than in any of the other cities, and when you look for fancy high-class grades they stand the equal of any. Philadelphia comes second for average grades and high-class quality, Chicago has all kinds and grades, while the market at Washington is not well supplied when quality is considered as compared with the others.

Every manner and kind of poultry is to be had in the New York market, from the most inferior to be found any place at the lowest price, to the very best grown at prices almost beyond belief. Broilers are sold from 60 cents per pair to as high as \$2; the high-class hotels pay as much as \$1.50 per pair for one and one-quarter broilers in July, if of the quality they demand, and was told they could not get all they could use even at that price. These broilers are all one size, all of the same plump form and finish, and so beautifully dressed and packed in small trays as to make them an exhibition tray; in fact, I have never seen anything so fine in the broiler line. "This," said the steward of the hotel, "is what we call first-class," and all the poultry they had on hand was of this high quality.

When we chase the will-o'-the-wisp and look to far-off England for a profitable market, we stumble over this not-supplied home market for the best, at very high prices, and neglect an opportunity that might be turned to our advantage. The same is true of eggs; high-quality fresh eggs are always in demand winter and summer in our city markets, but nothing but the best will bring the high prices.—W. H. BLACK.

The Best Eggs.

Editor The Feather:

I have been sending eggs to the New York market for several years and thought my eggs the best that hens could lay, but for some reason or other that I could not understand my eggs had never been graded as high class. It is best to admit that I felt that I was being cheated, and made up my mind to go to the city and look up the trade for myself. I went to the retailers in New York City, the milk stores, the groceries, and, in fact, all kinds of stores including the large dry good stores sell eggs, and it would do one good to go through this line of stores and see how they sell them. One store

had up the sign, "18 eggs for 25 cents," while his next-door neighbor would sell "20 eggs for 25 cents," and so it went up and down the line, but all this had no attraction to me, having thought that eggs sold so very high in New York City.

In my going about I came to a butter and egg store—marble walls, marble floors, marble counters, marble front for ice-box, and a young woman in charge who was in attire fit for the parlor. On the counter in a round platform basket was a lot of large white eggs; all seemed of the same size and shape, all so clean and bright and so attractive, I asked, "Will you please tell me how you sell the eggs?" "Forty cents per dozen," she said, "all fresh Leghorn eggs. Shall I send you some home?" Being a woman she listened to all my questions and I learned that it was most difficult to get eggs suitable to their trade, as the eggs must be all white, of good size and even in size, perfectly fresh and spotless. "Can you sell many at this price?" I asked, and was told that they never had enough, and then I was asked a question that set me thinking; it was, "Why don't you people that have eggs to sell all have nice eggs like these? Think it would pay better."

I came back to my home. This was two years ago, and to-day I send to New York the year around to that very store all the fine first-class, all-alike eggs, as neat and clean as a pin. All white in one case, all brown in another, they are absolutely clean, all of about the same size and fresh, and I get the top of the market for them all the year around and it pays. Those that are not regular in size and color go to the family table or the grocery-man in our village. New York people know first-class eggs and will pay for them, but other kinds are not worth any more in New York than elsewhere, only the cost of carriage to the city.—MARY WINTHROP.

The Laced Wyandottes.

Editor The Feather:

The original Wyandotte, the Laced Wyandotte, the Silver Laced Wyandotte, has taken quite a step to the foreground in the last year or two. We hear so much of the fancy killing utility, and I think in these we have the lesson that should quiet the whole outfit on this claim. Since the very start this original Wyandotte has been classed as a fine egg-producer and table fowl. I

think that all will admit that this is a fact, for it is. For years they were neglected by the fancy, and did they grow in utility favor? Not that any one knows of, for all the time the fancy neglected them no one seemed to push them for market poultry or egg-producers. The same is true of the Pea-comb Plymouth Rock, and the same will be true of any fowl or horse or cow or hog. Their popularity and public favor depend upon their being shown at exhibitions of one kind and another. None but the expert or fancier will do this, and it must be done or any breed or variety so neglected will descend to the level of the barnyard fowl.—Y. AND DOT.


Rose Comb Leghorns.

Editor The Feather:

The Rose Comb Leghorns, White and Brown, are becoming favorites in the very cold climates of the Northern States as egg-producers. We know of one party who keeps six or seven hundred of them all the time up against the zero climate of Lake Erie, and they do finely. This flock of hens is a sight to see, so beautiful and white with Leghorn shape and ways, but so small a comb as scarcely to attract attention. This is of advantage as against the larger combs in the very cold weather, and the hens are wonderfully fine egg-producers. The man who has these hens has averaged over \$1 per hen profit each year for several years, and one year he gained over \$1.50 per hen from them.

All about over the country we find flocks of these Rose Comb Leghorns of both kinds kept for egg-production. People having cultivated better size and larger eggs from them have a line of fowls that rank with any Leghorns of any kind, and this shows how very easy it is to cultivate any instinct that is prevalent in a fowl and improve it to any reasonable limit.—A NORTHERNER.

Valley Farm White Rocks won at Pan and N. Y.



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Fall Fairs.

The chances are better and better all the time for those who breed fancy stock of all kinds to do well by showing their stock at the fairs. None of the classes for live stock have better attention now than have the poultry classes. All kinds and varieties of standard fowls have classes with fairly liberal cash prizes. In many instances classes are open for non-standard breeds. This extended list of classes opens the way for bringing all new breeds or varieties into notice, and the public has the chance to see them and judge of their merit.

There is not enough value placed upon the advantage to be gained at these fall fairs. More people may be taught the value of true or standard-bred poultry at one of these fairs than it is possible to have the opportunity to teach at the winter shows. Ten times as many go to see the poultry at the fairs as go to the winter shows, and the greater part of all those who go to the fairs are buyers to a greater or less extent. They all keep poultry and they all want better stock if they can get it at a price they feel that they can pay. These are the people who buy the bulk of the five-dollar-per-pair quality, and they are sure to keep in mind those who have the kind they are anxious to have.

Having gone to the fairs and seen and purchased the kind of fowls they like, they are started on the road to better poultry, and such will continue to be purchasers each year of better and better all the time. It is due the entire fancy that all breeders see to it that the poultry department of their local fair is well filled with a good quality of stock. The way to keep the prizes from going to inferior specimens is to have good quality in the display. Make it your business to have all the classes filled with fowls of good quality, this is the only way to prevent poor grades winning and to drive them out of the fair display.

All this is a benefit to the poultry interest at large, and what helps this interest benefits you and all who have well-bred fowls. You help yourself in helping others. If all the fancy would pull for this end the business would grow even faster than it has in the past. Don't neglect this opportunity to bring your best fowls into the presence of those who might become interested in them. Do your part and more business will come. The plan of olden times of exchanging settings of eggs is no more. Those who know aught of better poultry strive to have it and pay their money to get it.

The season opened at Syracuse during the week of June 15 with a summer exposition. The display of poultry was very good for the time of year and for a new venture. There were between seven and eight hundred entries of poultry and in addition to this quite a lot of pigeons and pet stock. Mr. T. F. McGrew of New York City was judge and Mr. DePuy superintendent. The reports from the show are gratifying inasmuch as it opens the way for a continual display of poultry in this country, as in England, where they have them every week from June to December. If this might be the method in this country exhibition poultry would be more valuable than at present.

It is to be hoped that larger and better displays than ever before will be made by breeders all over the land at our fall fairs. These displays of poultry should

be of good quality for they have a tendency to advance the interest, and when the stock shown is of good quality it draws the people to better poultry and helps the whole industry at large. When poor quality is shown it injures the reputation of those who show such quality as well as casting a reflection on the whole industry.

There is a disposition to find fault with the large exhibitors at these fall fairs. Some clamor against them and call them hucksters, but we have noticed that these large exhibitors usually gather in a good per cent of the prizes, showing conclusively that the quality of their stock is good. It would be far more to the credit of those who complain of these large displays if they would go to the fairs with better stock than they do and win the prizes away from the large exhibitors, but so long as these industrious hard-working exhibitors can carry a string of birds throughout the circuit and beat all others it is a poor business to find fault with them.

A man who can start in the first of September with a string of birds and win with them all through the circuit of eight weeks proves himself to be an expert at caring for his stock, and the continual winning proves the good quality of the stock, but the special breeders in all parts of the country who allow them to win are lacking in enterprise or quality and it is their duty to change this by showing up at these fairs with good specimens that can win. So long as these large exhibitors carry the quality and win the prizes all others should decline to find fault for these same exhibitors are doing that which you should do in educating the people.

In the East this fall we will have the New York Stock Fair at Syracuse, September 9 to 14; Cambridge Fair, at Cambridge, N. Y., August 26 to 29; Poughkeepsie, N. Y., September 23 to 26; Allentown, Pa., September 23 to 26; Trenton, N. J., September 29 to October 3; and Mt. Holly, N. J., the week following Trenton. After this comes the Great Hagerstown Fair, October 14 to 17, when the adjourned meeting of the American Poultry Association will be held. Here is a continual eight weeks of fine first-class fairs and as many more smaller ones that pay good premiums. All should prepare for this in good shape and go to win.

West of New York there is a fine lot of good fairs, Indianapolis, Ind., September 15 to 19; Columbus, Ohio, State Fair, September 1 to 5; St. Louis, Mo., October 6 to 11, and hundreds of smaller fairs throughout the whole country that should have the patronage of all fanciers.

Variety the Spice of Life.

A change of diet is quite as beneficial to the fowls as to man, or other animals; in fact, it is quite necessary that they should have a change if they are to do well and prosper. The more variety they can have the better will they do, providing the food supply is suited to them. The real reason for success in the use of the chick foods that are sold, is from the variety of good, wholesome grains and other foods they contain. Many of these foods are good balanced rations for the young chicks and such form of foods promote growth, health, and vigor as well as a speedy growth of feathers. These results will always come with the use of any well-balanced ration for growing stock of any kind.

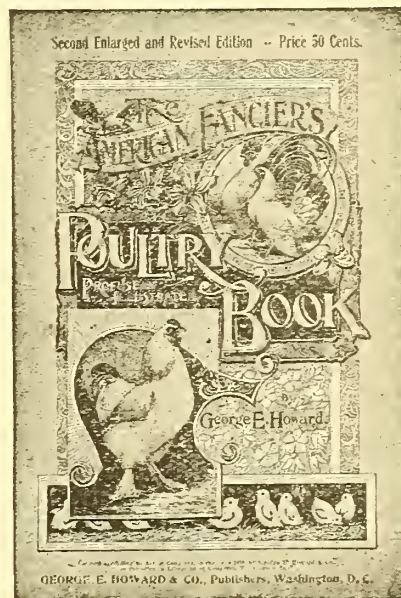
Those who select a combination of

feed that gives the greatest variety and at the same time contains the best combination for the purpose used succeed the best with fowls of all kinds. We have known breeders to live side by side or in full sight of each other and one would have surprising success with both old and young fowls, while the others would not do so well and all claiming to use the same method of feeding, showing how much there is in the handling of the stock and the varying of the food. This brings into play the question of experience as well as practice in feeding that which is needed at the proper time.

Large amounts of food can not be consumed and ground up by the chicks or the fowls unless they have plenty of grit to grind it with. There is also the question of indigestion or over-feeding that must be considered, for if a lot of fowls or chicks are over-fed with rich food it takes the eye of experience to detect it in time to ward off ill results. This is another question that demands experience as a guide, and this knowledge helps those who have it out of many troubles that others can not see coming. Much of all this can be avoided by having a continual change of diet that is well put to use for the best results.

Valley Farm, Simsbury, Conn., introduced Faverolles. Eggs.

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Small Poultry-Farms.

Thousands of small poultry-plants will prosper all over the land. They have done so and will continue to do so for all time to come. All those who keep a few fowls within their capacity to handle will make a profit, many who have gone so far as to have 600 or a thousand hens have done fairly well with them, but only a very few have shown the ability to handle a large plant with several thousand hens and succeed. This has been begun so often and discarded that one might conclude that it was not possible to conduct such a plant and succeed with it. When we look about us we find but few in the whole world that have the ability to succeed with large business enterprises of any kind. This being true in the other followings in business life why should we expect more of poultry than other products? We could cite several large failures in the poultry business in each of which none of the owners knew anything about poultry. If a man went into the practice of medicine or law without proper knowledge he would be sent to jail. It would be just as well to send those to the mad-house who try to have ten thousand hens, when they have neither the knowledge nor ability to care for two hundred.

That the poultry business should bear the blame for the shortcomings of those who rush blindly in and fail for lack of knowledge is unfortunate. At the same time others profit by these failures. The man who sells at high prices when they start has no kick coming, nor has he who buys cheaply at the end any fault to find, the only unfortunate one is the old hen who is blamed for it all, when, in fact, she is least to be blamed. As long as people will continue to have just as many as they have accommodation and ability to care for just that long can they go with hope of profit, but just as soon as one oversteps this bound trouble comes, just as it would come if you have more cows, pigs, or horses than you can care for. Thousands of small poultry-plants all over the land will pay, and we shall continue to encourage this, while we shall discourage the starting of large plants by those who have no experience. Begin small and gradually grow is the way to succeed with poultry.

The Poultryman's Dog.

Editor The Feather:

Somebody said, "beware of the man who does not love a dog," but it will not always hold good. It does seem as though all right-thinking persons would like a good dog. I have owned a number of dogs since my early boyhood. The first was in truth a yellow dog. It promptly learned to eat eggs and my father sold it for one dollar while I was at school. I was about eight years old then. Instead of eating supper I cried. I next bought a beagle hound but lost him in less than a year. Since then during my poultry business I have owned some kind of a terrier. First small ones, then, for the last seven years, bull terriers of about thirty to thirty-three pounds weight.

As a poultryman I never owned a more useful dog than the bull terrier bitch I had for six years.

On one side of the dwelling are seven poultry-houses built on corner stones. Boards extend below the sills on the outside and inside providing a shelter for rats. The bull terrier searched every

house daily as we went around, and promptly dug each rat out as it came, killing almost every one. She was death to all mice, rats, flies, and spiders she could find. She separated every cock-fight she saw. Whenever my baby boy went on a trip she went along and stayed until he came home. She would go to a neighbor's with me but if I stayed too long she came home, but if we sent the five-year-old boy she never came until he came. Brave as a lion and kept off chicken thieves. There are few dogs thieves fear more than bull terriers, for they are dead game and fight to kill, man or beast, yet children can abuse them without danger. I knew one bull terrier that would let only children touch her puppies, but that is an exception. Woe to the man that would molest my wife while she was around! My preference is for a female every time. Have them spayed and you have a dog that is easily taught, clean, and will not damage plants in the yard, never run after other dogs, and is neater in looks than a dog.

Collie Shepherds are my next choice for a watch dog. They make an ideal companion, too, but are not as active to hunt rats and mice as a good bull terrier.—W. W. KULP.

Selecting Winter Layers.

There is quite as much care needed in the selecting of the winter layers as is bestowed upon the selecting of fowls for exhibition or for producing show fowls. There is not the least use to suppose that any old hen will lay eggs in winter. Too many people keep over for winter layers those that the huckster don't want, you don't eat, and nobody seems to want. This is the reason for poor egg-yield in the winter. Those who have plenty of eggs to sell all winter are the ones that select their winter laying hens.

Hens that molt late seldom lay during the following winter. Hens to do well as winter layers must go through the molt and be done with it in time to gain strength for winter egg-production prior to the cold days or they can not get the vitality necessary for a full winter egg-yield. Such may produce a few eggs all through the winter but they will not produce enough to pay their keep; oftentimes, however, they do produce the eggs that you will use for hatching in the spring. From their use you will get a lot of inferior egg-producers, for the chick will take after the parent bird.

If people might grasp the notion of selecting and keeping for their own use the best every time and all the time, they would have more eggs in winter, better chicks in the spring, better stock to sell all the time and their flocks would be better and better each year, but so long as the huckster, the cook, and the housewife are allowed to select for killing all the best as fast as they grow to a proper size just so long will your flock of hens lack the very qualities that are most desirable, because of the profit they bring. The way to do is to let the huckster buy or the family eat the ones that you do not wish to keep. Never let them have the best cockerels nor the best pullets nor the best one-year-old hens; keep all such for yourself, or at least as many of them as you will need for winter use, and clear out the rest. Those who let the huckster take away the best will get less each year out of their hens, while those who

always keep the best have better to sell as well as better to keep each year.

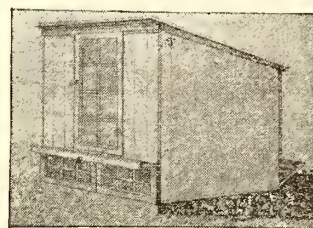
How Much per Day?

We note in one of our exchanges that a man in Vermont has proven to his satisfaction that his hens do best on five ounces of dry grain per day. This is 116 pounds per year, or about two bushels of corn or wheat, more of oats. If this man told just what kind of grain he fed and how much of each, we could tell the cost per hen per day or year. This ration would be a full supply, we should think, for good-sized fowls that must be kept active to consume it to the best advantage. If some one could keep a daily record of what is fed to successful hens it would be a valuable line of information, but so far it seems that each one must be the judge of what a hen shall be fed and no real to-be-depended-upon knowledge is at hand of what to feed, when to feed, how to feed, and how much to feed every-day hens for eggs or breeding.

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Many Things to be Considered.

Q. I have a friend that owns a large farm in Mississippi. Three hundred acres, high land, formerly raised cotton and corn. This farm is three miles from the railroad and ninety miles from New Orleans. Four years ago, prices being low, abandoned the farm and came to New Orleans. What would you think of this place for a poultry-farm? And would this be a paying investment? We are both making \$3 per day. What would it cost to establish a farm of this kind?—C. E. B., New Orleans, La.

A. There are a number of things to consider in connection with a poultry-farm in your section of the country. First of all shade and glass or green growth of some kind. To do well in a hot climate fowls must have plenty of shade and green food. If you have this on the farm or can have it, you might do well with poultry. If they can not have the shade should not consider it a good place for a poultry-farm. If my information is correct, hens lay the best in your part of the country during those months when eggs are the highest in price. Also you are able to hatch the young chicks in December and January and have them do well if partially protected from cold spells. If this is true young chicks might be raised and sent to the winter hotels and North like fruit. These young chicks if well raised and prepared for market could be sold North at good prices for broilers, **PROVIDING** they are sent to market in the best possible shape, otherwise not. If you are not acquainted with the handling of poultry would advise your going into it in a small way at first, for one must have experience with the handling of fowls before they can make a success of having them in numbers. A new hand at the business must fail just as I would should I attempt to grow cotton. There are three things most necessary in handling a poultry-farm—push, pluck, and experience; with these well rooted in one may succeed without a dollar, without them we may fail even though we have plenty of money.

As to the cost of starting a poultry-plant, shall refer you to November, 1901, number of *THE FEATHER*. In this we set forth fully the whole matter in many ways, far better than it can possibly be told in a small way. After going over all this if you feel willing to go into the venture, first visit some one who has a number of fowls in your State, and when you stock your farm *begin* with acclimated stock, also send to the Department of Agriculture for Farmer's Bulletin No. 41.

Plenty of Shade.

Shade is an absolute necessity for all kinds of fowls in hot weather. Chickens, ducks, and geese all come under this rule. Don't overlook this, keep it always in mind, and provide some kind of shade in advance for your fowls and growing chicks during the hot spell that must come this month. Those chicks and fowls that must roost in the glare of the sun all day with no shade or shelter will often go into the hot hen-houses to get away from the sun's rays.

The heat of summer often kills the over-fat old fowls that run about in the sun. It simply melts them down and kills them, and people often wonder at the cause of destruction. To prevent

this have shade of some kind for their protection. If nothing better hang up some old clothes or build a skeleton shed and cover it with branches or muslin. Build this close to the ground and have it so the air can blow through and under it. In this way they may be kept fairly cool at least, but nothing is so good as natural shade or brush. The rows of the corn-fields are splendid for shelter and almost any one can have the growing corn if they will.

Prospects Good.

From all over the East, West, North, South, and Canada comes the word of better prospects for winter shows than ever before and more shows are scheduled for this winter than ever before. This means much to the poultry interest, for it gives almost every locality a chance to attend a near-by show and compare their stock with others. This is the school-house of the amateur who takes his first lessons at the fall fairs and local shows. For these reasons all these shows should be properly judged by the most competent experts. The small local show needs a better judge than does Boston or New York, because the lessons learned at these small shows are lasting. If they are properly taught by experience, 'tis well; if badly taught by one who lacks experience, harm has been done.

This is why the local shows fail in many cases. They have a judge of no reputation who passes upon the fowls and awards the prizes, the people go home and that is the end of it all; whereas if properly judged by a competent judge, equal credit reflects to the bird that would come if judged by the same judge at any show. It is the opinion of the judge that places the awards, that grades the value, which is estimated in accordance with the value of the judges' opinion. If the opinion of the judge has a high value all over, so has the award; if the opinion of the judge has but little or no value with the people, the awards made by him add no value to the bird.

With the many shows that are to be held this winter it would be of great advantage to the poultry interest to have them all properly judged, for the value it will add to the exhibitors' stock, and the benefit that comes as information to the fancier. The cheapest judge that any show can have is the best judge you can get without regard to the cost. The price paid the judge is the least of it all. Have the best judge you can get and pay him his price, for his expenses will not be any more than another's and the value of his awards is worth having, for it educates. With so many new exhibitors in sight it is to be hoped that all our winter shows will be run for the full benefit of exhibitors.

The Brahma.

The Light Brahma is up for an overhauling of quality and type of the past and present. No better fowl than the Brahma has ever been bred in the world, and while it is true that the most exquisite show specimen may not lay so many eggs as its ancestors of twenty-five years ago, that which these individuals lose in egg-yield they make up in beauty. At the same time there are many in the same flocks that these high-quality show birds come from that will surpass the egg-yield of the past. In

a flock of two or three hundred Brahmas there are not usually to exceed ten or a dozen of these real exquisite show specimens. While all the flock, if properly bred, may score over 90 there are usually these few very fine ones that surpass all the balance; and because of these few must we conclude that Brahmas are all like them?

The tendency at the present is for too short legs and too much feather, and a stooping carriage like the Cochin. This is the type that has been winning at Boston and New York under Brahma experts. We should call this a mistake to favor the Cochin type, at the same time there are thousands of the other type for those who wish to foster egg-production and table qualities. The trouble with the whole matter is that the Standard is not being closely followed by judge or breeder. Close hocks are not demanded as they should be, the straight legs are not as prominent as they should be, and the band at the hock-joint or knee is too prevalent.

This turning over of the subject must lead to good results as it did with the Cochins. The full-feathered and American Cochins fought it out till to-day we have the American Cochin with soft hocks and plenty of feather to suit the bird. The same will come to pass with the Brahmas. Both sides contending for what they consider best will compel all sides to study and decide what is best, and the end will be a far better Brahma than ever before. We hope that all will go on in their effort for a true Brahma type till it is fully established on the middle ground where the Brahma should stand. This question of type is quite as important in Dark as in Light Brahmas, and all should be brought within the limit of proper Brahma type.

Shows and Associations.

The American Buff Plymouth Rock Club's new catalogue will be ready for mailing about September 1st. Every one interested in this popular variety should have one of these books, which promises to be finer and more interesting than anything yet published by the workers of this successful organization. Send a stamp to the secretary, W. C. Denny, Buffalo, N. Y., who will mail a copy on request.

The Cambridge Fanciers' Association will hold its third annual exhibition at Cambridge, Ohio, Jan. 7-10, 1903. The following officers were elected for the ensuing year: A. J. Clark, president; J. E. Eaton, treasurer; James C. Sarchet, secretary; Mark Sigler, assistant secretary; Chas. Wilson, superintendent. Executive committee: Fred. Wilson, H. B. Reed, T. M. Marsh, Mell Sarchett, D. L. Rankin. Ira Keller, judge.

The annual exhibition of the Quaker City Fanciers' Club will be held in Salem, Ohio, Dec. 11-17, 1902. Theo. Hewes will judge the poultry, and cash premiums are guaranteed. H. E. Phillips, Salem, Ohio, secretary.

The Tuscarawas County Poultry and Pet Stock Association will hold their first annual exhibit at Canal Dover, Ohio, Dec. 2-5, 1902. J. M. Schell, New Philadelphia, Ohio, is secretary, and Charles McClave will judge, thus assuring that the awards will be placed where they belong.

Keep Hunting.

One continual hunt should be kept up amongst your flock of fowls to cull out poor quality, poor layers, and non-producers. The only way to make fowls pay is to have none but the best. Only have and keep the very best of all you have now or may have. Cull out all the time the poor egg-producers if you wish a large egg-yield. If your desire is to have clear, pure white fowls cull out and get rid of all that have the least taint of any bad color in plumage; or, in other words, cull out and get rid of every feature that is undesirable in your flock and only keep the good quality that is in line with your wish as to quality of production.

Follow this plan throughout the whole year. If it is a large egg-yield that you desire, hatch only from the hens that lay the largest number of eggs and use males only that come from large egg-producers. In this way you will root out all the sluggards and non-producers, and it is possible to add considerable each year to your average egg-production, but in doing this you can not always hold the most desirable breed-shape in your fowls. The heavy egg-producers seem to grow away in some cases from what might be called exhibition form; as, for instance, the best exhibition Brahma or Cochin may not be such prolific egg-producers as some of this kind that are not so perfect in show type or form.

The profuse plumage on the exhibition Cochin or Brahma detracts from their egg-production, but for producing exhibition specimens such high-class specimens are invaluable. This shows the plain meaning of "like producing like." If for prolific egg-production breed only from strong, heavy layers; if for exhibition, breed from the very highest quality producers of the best. If this same line is carried out for size, shape, color, type, or egg-production, and selections made at all times to conform to that we wish to produce, we can gain the desired end providing we keep at it till the desired feature is thoroughly stamped into the blood-lines of your stock. It is useless to hope to gain all these or even part of them in one year or even two. Keep gaining by hunting out and discarding all that is undesirable and holding to the good only.

Bantams.

So far the display of bantams this season has been a wonder to all, the quality so good and number in excess of what might be looked for. This shows how strong a hold these beautiful little fowls have on those who love and breed them. The American Bantam Club has been formed in their interest in New England, the National Bantam Association at New York, the Game Bantam Club at the same point, and an association in their interest in the West. There is but very little question of type and color amongst the whole fraternity and if possible bantams are bred more true to color than any of our larger breeds, and shape has great consideration.

The forecast is for a very large display of Bantams at both New York and Boston this winter. Last winter some who like to attend both shows could only go to one on account of both being held at the same time. This year all can go to both, as they undoubtedly will, and the displays will be a wonder. Good bantams always have and always

will sell at high prices. It pays well to have them good, for it is the quality that sets the value where it pays to raise them. The best are none too good for the true bantam fancier who is always on the lookout for better than he has.

Better Care.

Eggs for eight cents per I have sold,
All from hens kept in the cold.
Now my hens come in at night,
The breed is good the house is tight,
They lay well, the eggs sell high,
And I'll win prizes by-and-by.

The above is prompted by the statement of one who said, "I am doing well with hens since I follow your advice to have good hens, houses, and yards, and I feed them right—all this I have done and won out in the attempt."

Formerly this man's hens had all the corn they could pick up about the farm, no one fed them during the summer months, and they had but poor housing and feed during the winter. The hen-house was cleaned out once or twice a year and the hens did no good. Corn and corn only was fed and no attention was paid to quality. THE FEATHER came and was studied, its teachings followed, and to-day he has a fine flock of well-fed, properly-cared-for, standard-bred fowls that pay him well. Every one can do the same if they will, and it is four times less trouble to do it right than to attempt to do it wrong. Just try it once for a season and see.

Seasonable Suggestions.

The Harvey Seed Company, of Buffalo, N. Y., have issued a neat little booklet entitled "Seasonable Suggestions," in which they have listed and described many things that poultrymen need at this season—chick foods, hen foods, vermin destroyers, sprayers and spray-pumps, perch-stands and brackets, etc. We would suggest that our readers send or one of these booklets before the supply is exhausted. Address the Harvey Seed Company, 65 Ellicott Street, Buffalo, N. Y., and mention THE FEATHER when you write.

Changing The Standard.

That our present Standard is faulty may be admitted without casting reflection on any, for it has been changed and fixed and corrected so much as to be a cripple, but in the face of all this there are some things that could be corrected or avoided, as, for instance, the new breed of Orpingtons is indexed under the letter B and placed amongst the American breeds, when it is purely English and should go with the Dorkings.

Pekin Ducks might at least have a color description for plumage and bill; Toulouse Geese should be better described as to color and markings as

should African and Brown China; Polish surely should be better described as to color and markings; the same is true of Golden Laced Wyandottes. It does seem that some one should take this Standard and compromise all breeds and varieties so that all would come under one scale or rule, have uniformity in each and all breeds, have an editor who can do this and hold him to his job, so that the work is properly done or don't pay the bill. That is the way other work is done, and it is time that this association should get in line for good work.

Killing Poultry.

To kill fowls properly, hang by legs, open the beak and with a sharp-pointed, narrow-bladed knife make and incision in the back of the roof of the mouth, which divides the vertebrae and causes instant death. When the fowl is dead it should be picked at once, without scalding.

TOO LATE FOR CLASSIFICATION

FOR SALE: 20 extra-fine S. C. Brown Leghorn cockerels; February and March hatch; nearly full size. Price \$1.50 each. Very fine; write quick. P. A. FETZER, Frostburg, Md.

P. O. STAMPFLE, Barberton, Ohio, breeder of fancy fowls. Sultans, Japanese Silkies, Rose Comb Black Bantams and Rose Comb Brown Leghorns. Eggs and stock for sale.

WANTED—By married man position as manager poultry-farm. Many years' experience all branches. Best references. Address, CAPABLE, Care THE FEATHER, Washington, D. C.

5 Pairs Homers, records 200-700 miles. Full pedigree with each bird. Must sell on account of removal. Also few youngsters, will sell at sacrifice. Clark, Green, Mabr, Inn's strains; will sell in lot or pairs. EDW. L. DINGES, Station D, Baltimore, Md.

Keep the Chicks Growing

...by using...

BOILED BEEF AND BONE.



When Romaine's Boiled Beef and Bone is fed to the youngsters they can not keep from growing. It makes them grow faster and stronger than any other food.

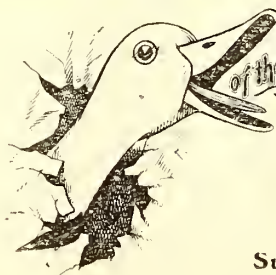
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Regularly on B. B. and B.

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EXHIBITION BARRED ROCKS. Clear, narrow bars; good bay eyes; clear yellow legs and beak. Eggs, \$1 per 13. E. B. LEEK, Amagansett, L. I., N. Y.

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BARRED ROCK EGGS from the prize-winning pens of Loeffel and Gibson for sale; also Single Comb Brown Leghorn eggs. Write me for prices. E. P. FRALEY, Heidershot, O.

BARRED PLYMOUTH ROCKS, Hawkins' and Thompson's strains. Fine exhibition cockerels and pullets at \$2 each; trios, \$5. Eggs, \$1.50 per 15. 20 years a breeder of Barred Rocks. Satisfaction guaranteed.

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B P. ROCK EGGS, \$1 per 15, or \$2.75 per 45, Latham breeding. M. B. Turkey eggs, \$2 per 12. JOHN B. TRICE, Summitville, Madison Co., Ind.

WHITE ROCKS.—Winners wherever shown. Write your wants to ED. L. DOUGLASS, 453 W. Center St., Akron, O. Eggs and stock in season and guaranteed. Mention this paper.

START RIGHT. To those starting in the poultry business I offer my service and advice, on all matters pertaining to poultry raising. I have had 12 years' practical experience. Services reasonable. C. M. BARTLETT, Agnewville, Va.

WHITE PLYMOUTH ROCKS Exclusively. Pure, choice, selected stock. Eggs for hatching. M. H. MICHENER, Carversville, Bucks County, Pa.

CHICKS FOR SALE, \$3 per dozen. Bred from third-prize Barred Rock cockerel at Philadelphia. Pure Bradley Bros.' strain. WM. WISLER, Pine Iron Works, Pa.

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FOR WANT OF ROOM I will sell at a sacrifice a good breeding-yard of Buff Plymouth Rocks. Order quick. Rare bargain. T. J. LITTLE, Hanover, Pa.

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ROSE COMB BROWN LEGHORNS FOR sale. A breeding-yard of 12 hens and cock, price \$20. This is first-class stock. The kind that produces our New York and Boston winners each year. Eggs, \$2 per setting. W. G. FRONHEISER, Prop. Address J. B. HOFFMAN, Mgr., Sanatoga, Pa.

SILVER DUCKWING LEGHORNS, Mottled Javas, Black Javas, Rhode Island Red Bantams, Rose Comb, of my own origin. Eggs, \$3 per 15. Bantams' eggs, \$5 per 12. JONES, "The Java Man," Suffield, Conn.

"THE BREED THAT LAYS, is the Breed that pays." S. C. White Leghorns. Write to-day for free illustrated catalogue. The hand-somest ever published. WHITE LEGHORN POULTRY YARDS, Box 502, Waterville, N. Y.

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WHITE WYANDOTTES. Winners at New York, Orange, and Washington past six years. Eggs one-fifth value rest of season from absolutely stay-white, vigorous stock, \$1 per 13. 95 per cent fertility guaranteed. Pedigreed Collie pups from imported stock, \$5 each. WM. H. CYPHERS, Box 105, Washington, N. J.

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WHITE INDIAN GAMES; choicest of table fowls; rock-bottom prices. Business changes induce us to sell our entire stock, including all our famous New York, Philadelphia, and Hagerstown prize-winners. Single birds, pairs, trios, pens, etc. Unequalled opportunity. Send stamp for particulars. EGG HARBOR FARM, Tuckerton, N. J.

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THREE HUNDRED breeding birds for sale from \$2 to \$10 each; R. I. Reds, Houdans, Lt. Brahmas, Buff P. and Golden S. Bantams. Some good bargains for early buyers. We want more room for our young stock. Also some fine Belgian Hares and Homing Pigeons for sale cheap. Send for circular and prices. DANIEL P. SHOVE, Box 666, Fall River, Mass.

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RING-NECK MONGOLIAN PHEASANTS. Eggs, \$2 per 15. Satisfaction guaranteed. Can hatch under chicken-hens. **MARTIN DIETRICH**, Box 493, Fulton, N. Y.

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100 FANTAILS for sale. Blacks and Whites, breeders and show birds in lots to suit, imported stock, no better in America. Prices reasonable. **E. A. HOLBROOK**, Winchester, Mass.

DRAGONS IN ALL COLORS.—Also Homers, Trumpeters, Tumblers, Owls and White Cochins Bantams. Satisfaction guaranteed. Write for prices. **JOHN HERTZ**, Hanover, Pa. Box 446.

FOR SALE CHEAP. Fifty old breeding Homers, Tumblers, Jacks, Pouters, Magpies, in all colors; also young birds of same varieties. All birds guaranteed. **LARRY F. GOLDBY**, East Third St., Williamsport, Pa.

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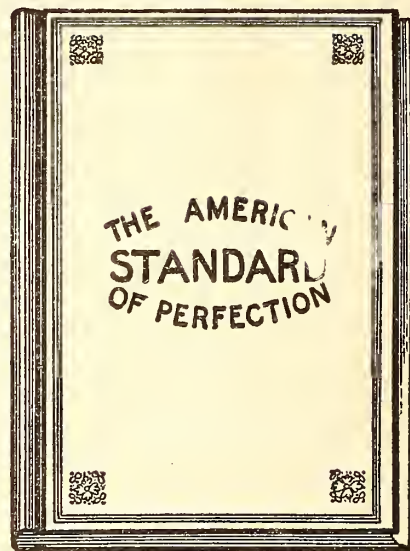
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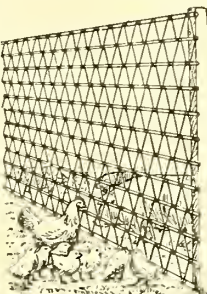
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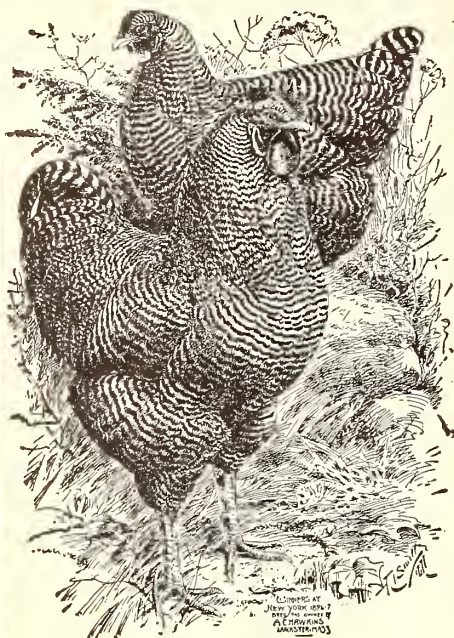
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WYANDOTTES, SILVER WHITE
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EGGS FROM PRIZE MATINGS.

1 Sitting, \$5. 3 Sittings, \$10.
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Have won more prizes at New York, Boston, Washington, and America's greatest shows than all others. My matings this season are the best I ever owned. * * * * *

At the Great National Show, WASHINGTON, D.C., in hot competition with over 300 birds of these varieties, the best that could be found regardless of price, I won 45 Regular and Special Prizes on 39 Entries, including First Prize on Breeding-Pen in each variety, Special for Best Display in the American Class, Special for Best Exhibit of Plymouth Rocks, Sweepstakes Special for Best Cockerel in the show (Bantams excluded), and this on my First Prize Barred P. Rock Cockerel. My winning White Wyandotte cock was pronounced by the judges to be the best they had ever seen. I won twice as many first prizes as all other exhibitors of these varieties. My BUFF ROCKS, at Boston, 1899, in hot competition, won more first and special prizes than all others. My customers are winning all over the country. If you want the BEST, write me. Hundreds of Choice Exhibition and Breeding Birds at Honest Prices. Catalogue of America's finest Plymouth Rocks and Wyandottes free.

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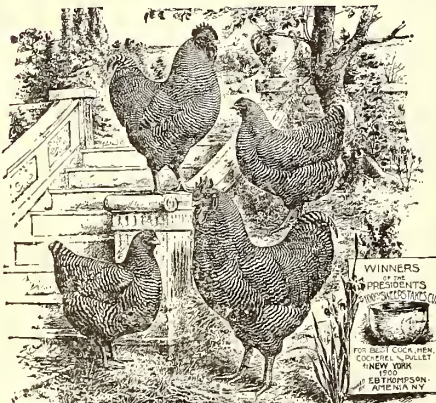
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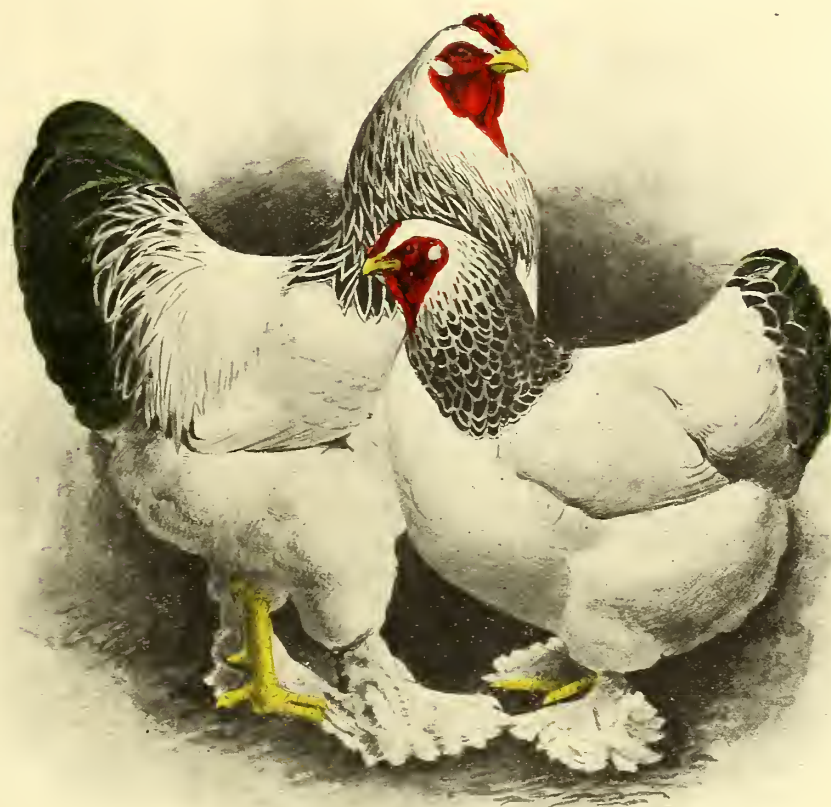
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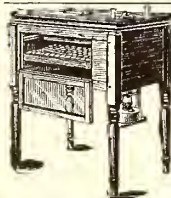
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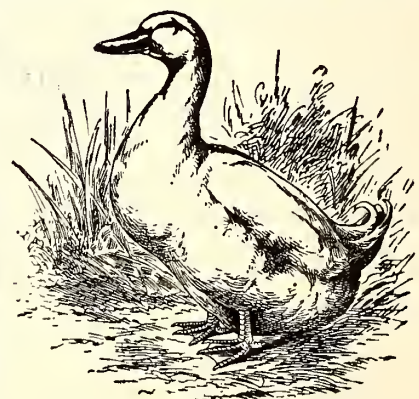
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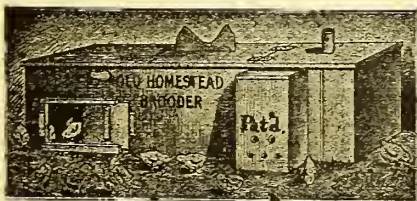
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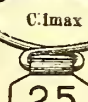
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Oaks, Penn'a.

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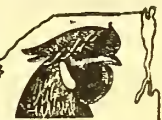
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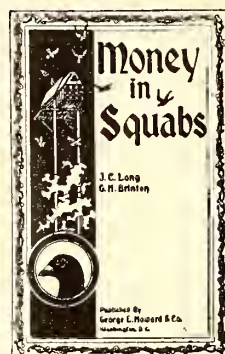
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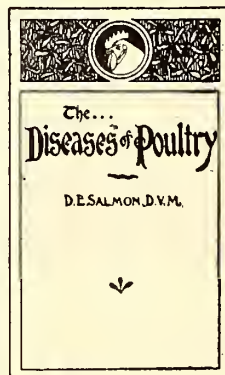
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A National Journal Devoted to Poultry, Pigeons, Birds, Etc.

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VOL. VII. No. 12.

WASHINGTON, D. C., SEPTEMBER, 1902.

FIVE CENTS.

BLACK FOWLS.

Their Color Not Popular With Us. The Qualities of Many of Them Superb.

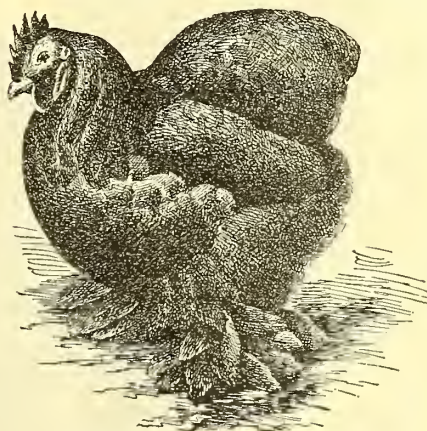
By T. F. McGREW.

It would be a waste of time to argue the case with the American people as to why fowls with black plumage are not favored with us. That such is the fact all will admit, and one might say that the reasons are very plain to a sensible person. All this may be true in a certain sense, but we shall for the sake of the sterling qualities of these black-plumaged fowls argue the case just a little. Seldom, if ever, does a blind man smoke a pipe or cigar. The reason for this is he can neither see the pleasing wreaths of smoke as they curl away to soothe the mind, nor the bright light in his darkness as others can. Much the same is the feeling for or against a breed or variety. If we can not see its beauty or favor its color our dislike rules and we do not breed it.

No matter of what color the plumage, it can not count for or against a well-favored fowl that has been nicely prepared for the table. You may have one or all colors; if all are good quality and nicely prepared not one in a thousand could tell what color the fowl may have worn prior to its slaughter, unless a tell-tale pin-feather remained to disclose its identity. Prejudice is one of our strongest feelings and when that is cast against anything it is quite hard to overcome it. This shows often in many ways. Some will not eat a fowl with feathers on its shanks, others would go without rather than eat one with dark shanks. A fowl with long legs and shanks never looks plump to some. As a matter of inducement to purchase, dressed poultry always looks best with both head and shanks off.

The prejudice against black-plumaged fowls is on account of the dark pin-feathers, the dark shanks, and in addition to this the black feathers on the shanks of some varieties. A woman complained to the writer that the meat-market would not buy her fat, plump, black fowls at anything like the price they would give for white fowls. We told her to draw them, cut off the heads and shanks, and to offer them as a new

French breed to private customers. This she did, and sold them all at a much better price than did others, for this is a case of overcoming prejudice with good business methods. If it were our calling to furnish or sell dressed poultry in a small way would always dress, draw, and detach both head and shanks and wrap fowl in a white cloth or paper and sell to private consumers by the piece or pair, not by the pound. Would weigh them before dressing



BLACK COCHIN BANTAM HEN.

them and get pay for feathers and all; this can be if of good quality and nicely dressed.

Then again, some of the fowls that have black plumage have white skin and meat against which some of our people have a prejudice. Those who go against them on that account know but little of their true quality, for the finest poultry meat for the table is that which has the thin white skin and delicate meat that goes with it. Once our people become well informed on the quality of the thin, white-skinned fowls they will be as strong in their favor. Prejudice will rule no matter which

way it guides. It may be for to-day and against to-morrow, but rule it will all the same. Right or wrong there is but little use to oppose it, we can only wait.

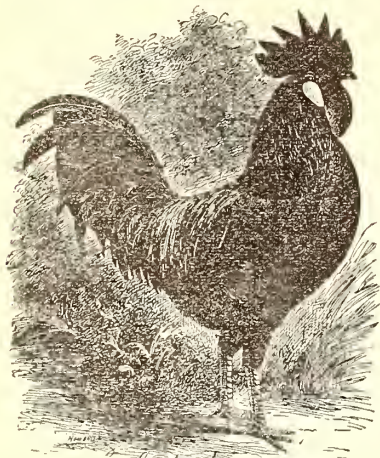
BLACK JAVAS.

Black Javas have been one of the fowls of Long Island and New Jersey since the first records of poultry in this country were made. The early-day Java was a black fowl said to have come from Java. It was no doubt of Malay blood, perhaps crossed with the Black Sumatra or some native black fowl of the island. These fowls were much the same as the smooth-shanked Shanghai. All of the fowls that came at that time from the South Sea Islands took their name from the place whence they came. These Java fowls were not the same as our present-day Javas. Those we now have originated, we believe, in the West and for some years they had many admirers, but at the present time but few of them are bred, and we could not mention them as a profitable breed for any one to take up, mainly because they have become almost obsolete so far as public favor goes, and it is much harder to restore to favor than it is to start anew. We do not wish to be understood as saying that the Java is any less a good fowl than always, for this is not the case; it is simply out of the line of public favor and might be said to be forgotten in the rush for popularity by others of our American breeds.

BLACK WYANDOTTES.

These have the same blood as the Silver Laced variety. Coming, as they did, from selecting very dark Silvers as breeders till they came black, gradually by breeding for color we have a superb fowl that has equal quality with any black fowl on earth. If those who are interested in this variety would push it for public favor as are other black plumaged fowls, the race would be won by the Wyandottes. No fowl is better than a Wyandotte and no black fowl is better than a Black Wyandotte. With this assurance why should American fanciers allow a Black Orpington to come amongst us with louder trumpets than we can blow for our product.

Within the past few years, Black Wyandottes of marvelous beauty and character have been shown at many of our shows. Some that came to Boston has special quality; they were large in size, fine in shape, and rich in plumage. Some of them would out-class many



BLACK MINORCA MALE.

other Wyandottes for true breed type. They are truly an elegant fowl and should make a most attractive fancier's fowl. If those who now have them in hand will persistently push them for public favor, ere long we shall see good classes of them at our exhibitions.

BLACK COCHINS.

The early-day Black Cochin was not all that one could wish for. It had bad color, and poor shape and feather. Some years ago the veteran, Philander Williams, gave them a hard push forward. Later, in the West about Indianapolis and Topeka they had a boom, but the most modern style of Black Cochin has had its home for years about the hills of Connecticut, until the long-time veteran, D. A. Nichols, ceased to be their champion and the work that he helped along drifted back to Massachusetts, and to-day the most elegant specimens of this kind are found about Boston. Some of superior quality came from Canada, but none can equal the New England bird; for size, shape, color, and feather combined, many of them claim equal quality with the Buffs themselves.

These are a very hardy fowl, grow fast, and have the vigor almost of a new breed, brought about no doubt by the infusion of strong, new blood from some other section of the country. For a time the Black Cochin suffered from a cross with the Langshan. This spoiled shape and feather, and gave bad-colored eyes, but rich plumage. Those who have guided them back to honors among the Cochin classes held to the splendid black sheen and gave to the modern Black Cochin all of the most desirable Cochin qualities, and made them a champion class fowl.

BLACK LANGSHANS.

The type of the present-day Langshan is not so desirable as of yore. The inclination is strong for a very stilty build. Some of the present-day English winners have shanks under them like an exhibition Game. We of America have not gone so far as this, but the present inclinations are in that direction. The original Langshan had much the same form as have Black Orpingtons, and as had the early-day Black Cochins. Many believe that the original Cochins and Langshans had the same origin and that the Cochin was changed by crossing on the Buffs, but be this as it may, the type of each is so distinct with us at the present time as to eliminate all chance for any one to

mistake one for the other, or to mix them in breeding without it showing very plainly. This variety seems to be specially suited to some parts of the South. We often hear of the superior quality of those shown at Atlanta and other southern points. This might be reasonable, for the influence of the metallic subsoil would benefit them in many ways.

Of the Langshan be it said that they are a fine fowl for producing eggs, they are good table poultry and very domestic; they have but the one fault of color, if it is a fault.

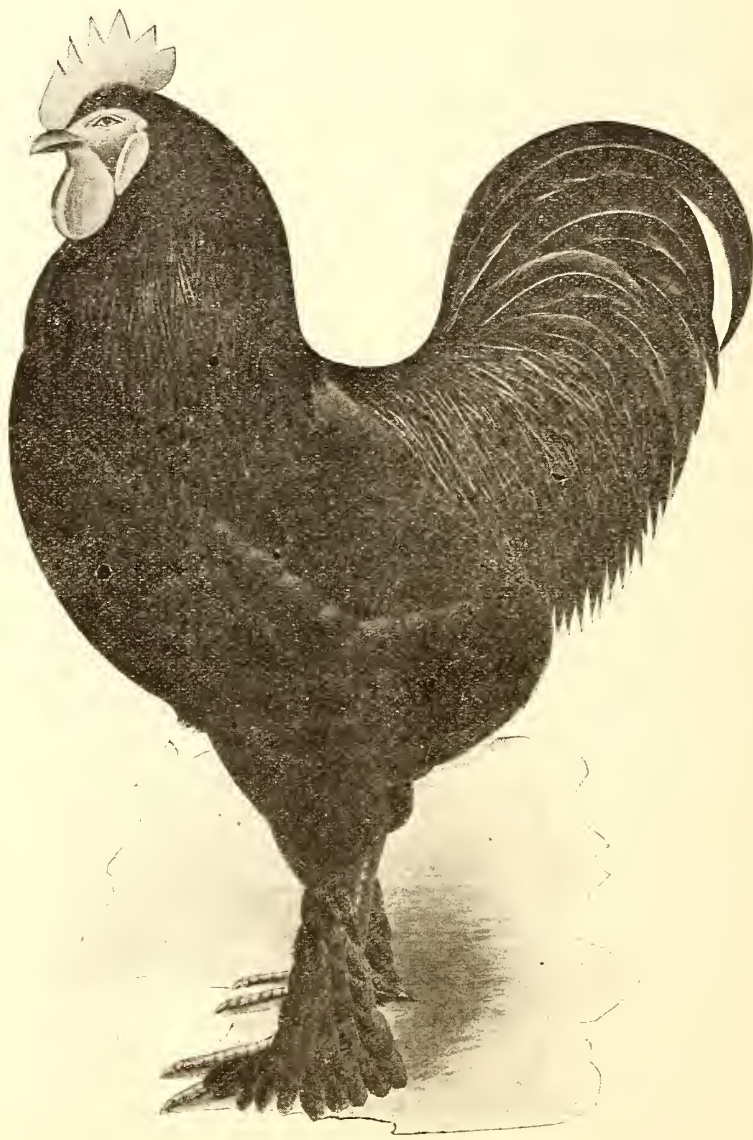
BLACK MEDITERRANEANS.

Public favor to a limited extent has waived its objection against color in the case of the Minorca in the Mediterranean classes. This exception has had a most surprising run of public favor, at home, abroad, in the show-pen and breeding-yards, and for family uses. Minorca eggs are sought for by all who know of them. We believe it is safe to say that no eggs are better than those of the Minorca. They have gained ground each year and now they have as a side-partner a Rose Comb Black Minorca that reflects credit on the breed. All this is justly due them for they are

a most worthy breed of fowls for all purposes.

The Single Comb Black Minorca is one of our very oldest Mediterranean breeds. It is a question if they are not the original of all the so-called Leghorn fowls, but whether this be true or not they are fully as old as are the Leghorns themselves. The present-day large size of the Minorca has come as the result of mating and feeding for size, also it is claimed that crosses with other large black fowls were resorted to; be this as it may as we now have them none surpass them as egg-producers.

The Rose Comb variety has first-class Minorca shape, and combs like the Hamburg. They are of fine size and very attractive appearance. A master hand has guided their destiny, and although it is claimed that no cross was made for their production one is inclined toward the impression that they favor the Black Hamburg in head, comb, and eye; but no matter if they do, no better fowl for eggs has ever existed than the Hamburgs, and their union with any other good fowl would not detract from their value. It is not to be wondered at that the Minorca has gained public favor, they are so very hardy, prolific, and lay so many fine, large, white eggs that all



BLACK LANGSHAN MALE.



BLACK SUMATRA GAME MALE.

who know them must favor them.

BLACK LEGHORNS.

For years this beautiful little fancier's fowl was hampered with small size and yellow shanks, but both of these drawbacks are fast disappearing. The shanks can now be dark in color and size is improving. The past winter some elegant specimens were shown that had good shape, finish, color, and improved size. All this gives promise of better days for the Black Leghorn that can be made an elegant fancier's fowl with a luster and finish of brilliant black that has a sheen like polished steel. Their beauty of form and feather makes an excellent foundation for the rich color of head-points including comb and white ear-lobes.

THE BLACK SPANISH.

The early-day Black Spanish were much like the present-day Minorca. They were the most wonderful egg-producers of their time. "O, what beautiful, large white eggs they lay!" was the expression on every side of those who saw their eggs. But gradually the fancier has enlarged the white of the face until it is as large as one's hand, and the length of leg has been extended until they look as if on stilts. Their eggs are as fine as ever but they must be kept in heated houses to save their white faces and combs from the frost of cold climates. They are as now seen simply a fancy fowl for those who love them and will spend their time making them more attractive so far as the white face and long shanks go to improve their beauty.

With some these changes are considered as a crime, but while some were busy making the Black Spanish what they are to-day others have been improving the Black Leghorn and Minorca, so that we have two of the same character as were the Spanish to take their place. We must not, therefore, feel injured, for if we do not wish the grand old Spanish with the very large white face and stilty legs we can turn to the Black Leghorn and Minorca, either of which will fully fill the place the Spanish formerly had, and let this fine old breed go on filling their position as a high-class fancier's fowl.

CREVE CŒURS AND OTHERS.

This and the White Crested Black Polish are the dark-plumaged members of the Polish tribe, and with them

might well be classed La Fleche that has the antler horns. So far as we of this country are concerned these are all classed with the fancy or ornamental breeds. They are all splendid for their purpose, none being better for table fowls than are the Creve Cœurs and La Fleche. They are high-quality French market fowls turned by the English into exhibition fowls, but neither has found favor in the eyes of our people.

BLACK GAMES.

The Black Game and Game Bantams have come to the front of late as has the Black Sumatra. With these might go the Black Cochins Bantams and the Black Duck of which we have lately written. All these fowls can be depended upon for real quality the same as any of our most popular breeds or varieties.

Langshans.

Langshans may be the original Black Cochins or they may not be, but one thing is absolutely certain, they are so far from the Cochins at the present time as to be entirely another fowl. Their shape, length of leg, and style of comb, head, and eye are so very different that no one could possibly go astray on the type, and type is the true test for a breed. If the type of each breed is not distinctive enough to tell them apart at a glance one or the other is not a distinctive breed. So it is with the Langshan. They have long legs or shanks, long tails, but little if any cushion. Their carriage rather up like the Brahma, while the Cochins has the short shanks and rather down and forward carriage.

The Cochins has the red eye, the Langshan the dark-colored eye; the Langshan carries its tail rather upright, the Cochins rather back or inclining down; the Langshan has the bluish-black shanks, with pink between its toes, the Black Cochins has yellowish-black shanks, bottom of feet yellow. These are characteristics no one can be mistaken about, and these differences brand them to-day as two distinct breeds, just as much as are the Brahmas and Cochins. These facts show the absolute necessity of holding closer than we do to our true breed type. Do not neglect it or be led astray from it; rather turn about and cling closer to it, for by so doing we will have better breeds all along the line in all of our fowls.

It should be the determination of all to have better and better all the time, and to do this we must cling closely to absolute type and perfection of color. There are some fine points in the Standard that should be fixed up as to this breed, both in shape and color. Have your standard so as to encourage better quality all the time, but not so as to detract from their quality and the pleasure of breeding them. Have a better standard so as to have better fowls. Don't have a standard to keep men from breeding and showing them, because to win they must fix up the weak spots. Have seen plenty of Black Langshans thrown out for the little show of white in flights that disqualifies that were so much better in all other ways than the winners that they were not in the same class. Have good Langshans and a good standard that will aid their advancement and not retard it. Have them as much better as possible and make them popular.

White Langshans could be a very popular fowl if their interests were

guarded and their quality improved. Very good ones pop up every once in a while as they did last winter at New York and Boston. The displays at these two points were a surprise to everybody, and it is to be hoped that another year they will be better than ever before. We know that the color of their shanks is not popular, but they are fine, prolific egg-producers and beautiful table poultry. The rich, brown-shelled eggs they lay are among the most delicate table eggs we have. We know some who keep them specially for the delight of a fresh Langshan egg for breakfast. All that is needed for them is to be boomed as other breeds have been.

Anconas.

This new-fashioned Leghorn is attracting considerable attention of late years. It is to be hoped that those who take them up in this country will stand for the true type and color as we described them in THE FEATHER a few months ago. Well-formed, good-sized, and properly-colored Anconas are splendid fowls, but the small Leghorn-shaped hens with broken colored black and white are not fine Anconas, and no one should be fooled with them. The value of all breeds or varieties is to have them right. If not, they are not true to the breed and should be discarded. Any one can mate together a solid black and a white Leghorn and obtain from them broken colored black and white fowls, but such are not true Anconas; that is to say, they are not true exhibition Anconas. The true marking of the Ancona is to have the sharpe tip of white to the black plumage. We know full well that our Standard calls for broken black and white as with the Houdan, but this is not the best form of marking for the truly well-bred, up-to-date exhibition Ancona as they should be, and as they have them in England where they originated as we have them at present.

At the late English shows some very splendid specimens of this variety have been shown, and while all admit that this breeding to feathers has cut down the egg-yield, at the same time it has produced a most beautiful exhibition fowl. All these changes have come to the Ancona within five years and we shall hope to see some of these of the highest quality shown with us in this country the coming winter.

These beautiful new things must prove of interest to all fanciers who love to grow fowls for the real satisfaction that comes with possessing the best. Such are the true fanciers, and while they are just as willing and anxious, perhaps, to sell as any of us may be, at the same time they do much good for the fancy and help to put the best to the front and teach the rest of us what can be gained by the determined effort to have the very best that can be produced. All such scatter through the land better than has been seen before and thus educate the people as to what they can have and should have as the result of close, hard application to its production.

Cleanliness.

The poultry-house should be white-washed inside and out at least twice a year with a wash of pure lime and carbolic acid. The droppings must be removed daily, and no accumulations of filth allowed if you would avoid disease,

NEW BREEDS OR VARIETIES.

They Bring New Interest into the Poultry Show.

The Sportsman's Side of the Poultry Business.

By T. F. McGREW.

The American must be doing something all the time. Old things become wearisome to many and as a relief from this they aspire to the creating of new methods and things to fill the vacancy caused by the dwindling interest. This has been so since the day of Burnham and others who fastened upon the people at large new breeds of fowls even to the sending of some to the Queen of England as a means of attracting the attention of the whole world to these new fowls, and from that day to this there has been one continual effort to produce new breeds and their varieties.

To begin with the two kinds of Brahmas, and then follow the Plymouth Rock and its varieties, the Wyandotte and its extensive family of varieties, the Leghorns and Bronze Turkeys, with other minor things in the way of new bantams, geese, and ducks, and all the fowls recorded in our Standard so much improved that no one who knew them twenty-five years ago, if absent so long, would know them as the same on their return.

All this has occasioned one continual strife and contention to surpass. No one has them so fine this year but another may come in twelve months with better. Not long since an old fancier who has long been out of the handling of fowls came to the show-room to get some Brahmas, as these had been his favorites in years gone by; said he, "They have so changed that I would scarcely know them as the same." This is so with all the breeds and their varieties. Style changes, quality advances, and those who do not keep pace with the times are soon left behind.

Youth brings zeal into the work and the unknown amateur of to-day is the power supreme in a short time. One might as well hope to turn Niagara in its course as to stop the wheels of progress. This is the same in all lines, and while some of us may dislike these changes we had far better fall in line and go on with the times than be laughed at for being old-fashioned.

The pride of our heart was the original Wyandotte. We had our type, color, and markings. Our English cousins took them up and changed them both. Back they came to the show-pens of America and won the eyes of the judge and fancier alike. The poultry press called attention to our having been outdone by the English in our own breeds of fowls; the satisfied ones began to claim ours as the best and to sing of under-color. All this was swept aside and to-day no one can beat the American type of open-faced Silver Wyandottes. Thus it will be with every new fad or addition or change in type or color. If it meets the craving of the fancy all else will go down under the determination to have the new thing better than ever.

It has been just so with the whole list from the Brahma to the Rhode Island

Red, and so will it be with the new Wyandottes that have just come into prominence, and all that may follow will share the same fate of advancement or improvement as may be. No matter if some do object, the final outcome will be the same.

THE NEW WYANDOTTES.

The Partridge Wyandotte came, it found its place in the Standard, and while its admission as such has been questioned it is there. None of its founders or its champions has as yet set the form and color to that perfection that they will attain. Others will follow and finish both type and color. What any set of men may think at this time will in no way guide or hamper their progress; on they will go till they either prove their position or fall by the way a neglected variety. The final question, the true test of popularity with us is, "will they sell? If not, down and out they go. This has been so with some that are of equal value with the most popular; no matter how good they may be for all purposes, if they do not sell well, out they go. One thing that has retarded the Partridge Cochins is that it is not of ready sale. This is because it is so very hard to breed of the winning quality.

Those who have produced the winners can sell all they have at good prices, as they do, but with all this the Partridge Cochins can not be classed as a public favorite on the lines of a large seller, and the same will settle the future popularity of the Partridge Wyandotte. Their colors and markings will be equally as hard to produce as are the beautiful shadings of the Cochins of the same color. As the fad wears off and quality and ease of production come to the front they will be compelled, as have been other fowls, to occupy that space in the poultry world that the future allots to them. For these reasons their admirers should plan in advance for their popularity.

The colors of the Partridge Wyandotte do not naturally create a yellow shank. To produce a beautiful colored female that has the accepted shade of this color is almost an endless task if the yellow shank must go with it. If that is to be we shall see the classes allotted to them dwindle to a very few exhibitors, and gradually they must take the place of the fancier's fowl and not fill the space of general popularity in the eye of the public. If we are to have a general favorite, have them so the public can handle them with satisfaction, for no one will continue to have a variety or breed from which they can not reproduce at least some good ones. The Barred Plymouth Rock is the only fowl that has filled the position of public favorite that is so very difficult to breed. The very fact that it is so difficult seems to hold such attention to it as has been given no other fowl.

The same must be true of the Silver

Penciled Wyandotte that is coming; if it fills the public eye and purse it will succeed; if not, it will fail. Don't make any mistake as to this. Don't hope for any better fate for it than has come to the Dark Brahma, for if both these fowls are not to become a fancier's fowl and be confined to a few, we must have them both popular and profitable. We may plan and scheme and do our best, but past experiences teach us that just what has been will be again. To be a success they must be easy of production within a limit of reason.

OTHER PLYMOUTH ROCKS.

To follow these are two Single Comb varieties of the same character and color that call themselves Plymouth Rocks. The very same reasoning must be used for them, for unless the general public can handle them they must fail. No matter if a few do well with them in the start the final test must come as they branch out for public favor. These new Plymouth Rocks are rather attractive; one is clothed in the Partridge Cochins colors, the other like the Dark Brahma. At present both are most wonderful egg-producers as are all new, well-made breeds or varieties. Their colors are quite attractive and the shanks of the males come yellow in a surprising degree, but the shanks of the females do not. This is to be their stumbling-block to popularity, the same as the shanks and markings have been in the Golden Laced Wyandotte. If moderation has sway they will be popular; if not, they, too, must become a fancier's fowl and not a public favorite. If they are not needed they can be cut out by the disqualifying clause. It will be better to be lenient.

NEW INTEREST CREATED.

The new varieties always bring new and increased interest into the fancy. Large classes of them are shown, and this adds interest to the show business which is one of the mainstays of the poultry trade. All this promotes the general trade in fancy stock and this self-same fancy stock becomes scattered all about and tends to improve the quality of all market poultry. This gives us better food in this line and increases the entire business of the land. Of all this it is our duty to think, and plan to make the most of all that presents itself for bettering the business and do all that can be done within reason for the benefit of better poultry and more of it.

THE SPORTSMAN SIDE.

If it were not for the delight of winning in the arena of poultry fame, there would be but little interest on the side of fancy stock. The love of pleasant strife in the show, the pleasant associations that come with this contention, and the social life of the fancier at the ring-side make it possible for the breeding of high-class poultry to go on. If it were not for this we could not have thousands of entries at our shows, nor could we have hundreds of shows through the land as we now have, and each year adds to the number of shows and entries. All this is in a good sportsmanlike spirit. The continuing and strengthening of this is what all should labor for who have the best interests of better poultry at heart.

'Tis true to a certain extent the culmination of all this is the building up of the fortunate, and the disappointment of the unfortunate. They come

and go; a new crop springs up every winter; not one in ten stays with the game; all the newcomers must be supplied, and this makes the continual outlet for the stock of the successful. Those who come in must buy of those who are in. So it will continue to grow, and if properly handled it might become strengthened more than it is from the ranks of the wealth of the country, but so far but few of this class have come into the poultry business. Much of this is the fault of those who are in, growing out of the fact that up to this time high-class poultry has not been classed as among the big things of the world.

Now that the whole world is alive to the value of the poultry products of this country, men in all lines of business are interested in its improvement. There is scarcely a periodical but has devoted some of its space to matters pertaining to poultry, and it is not unusual for our great dailies to devote a whole page in a special issue to the question of poultry. All this is in favor of its future. If properly guided it will reflect credit, but should we allow it to drift into the hands of a professional few, that which might lend aid to its advancement will retard it and do harm rather than good.

Mating Brown Leghorns.

The winning of prizes at our winter shows is a graded condition and it takes far better stock to win at the larger shows than at the smaller ones. As the Rev. Williams, of England, puts it, "The winners in the highest competition must be more evenly and beautifully put together and possess by far less faults than do the winners in less keen competition." In the Brown Leghorn classes of our largest shows the past few winters the quality has been superb and the winners simply beauties. We have watched for years for the result of the present standard demands, as we knew it was imperative that double mating must follow their enactment. We have wondered at the practice of some to produce the beautiful rich top-color of the males, that have the broad, brilliant, glossy black stripe that looks as if you could pick it off from the feather.

To produce such males a system of line breeding has been followed for males alone, till the females that come from such matings are almost black with but little stippling on the plumage, breasts of same dark color as back, and necks much too dark for a female line. So long as this line of birds is bred together for males only they will produce good stock of that kind. Some of the most beautiful males ever seen have come as the result of these separate special matings for Brown Leghorn males, but wherever this line is bred into a female-producing line it will destroy it entirely for producing females. It is utterly useless to hope to produce good-colored females from these males that are produced from *line-bred matings for males*, but such will improve the males in any stock with which they are mated.

The producing of female Brown Leghorns of the proper size, shape, type, and color is the high art at the present time in Brown Leghorn breeding. To do this you must have a special line of breeding stock for the sole purpose of producing females. As we know full well that none who have this stock of the best will part with their males

that are bred for this purpose, your only hope is to secure one of the very best exhibition females you can buy and mate her to a male that has light top-color that runs into orange with no stripe in saddle, or at least as little as possible. If the ending of both hackle and saddle is a light orange so much the better. Have both specimens of this pair fine in all the requirements of shape and good size, and above all have good heads, combs, and lobes. Start in with a high-quality pair, hatch all the chicks possible from this pair, and select from the males the very best for the purpose of producing females and breed him back to the mother-hen.

Keep all the pullets that are good ones and mate a few of the best back to the size. When next fall comes kill off all the cockerels that come from the mating of the cock-bird to his own pullets, select three or four of the best pullets from this mating and turn the rest into your general laying-pens. Select from the mating of mother and son as many of her best sons as you will need for breeding and get rid of the rest. If your purpose is to sell eggs for hatching that will produce a good average sum of males and females, put some of the cockerels from mother and son into your general breeding-yards, as they will produce average good stock.

For mating after this we give you the following rules to follow each year: Having kept over the pullets of the first year select from them one, two, three, or four of the very best and mate them with a cockerel from the mother and son mating of the year before. Keep a few of the full sisters of this cockerel to use as hens next year to be mated to a son of the original hen if she still lives; in this way you can go on for three or four years.

Secure the very best exhibition hen you can buy and mate her to the best son of your original hen, and make use of the males from each of these hens to cross upon the pullets of the other line. Keep up this cross mating from these two lines and you will, if you select only the finest and most vigorous hens—not pullets—to breed from each year, build up a strong line of large-sized birds that will be beautiful exhibition females providing you keep true type always in mind in selecting and mating.

For those who do not care to bother with these double matings in line, we advise the single mating or middle plan. Don't hope to have the rich, brilliant top-color and striping of males, nor the most elegant finish and color of females. Mate the very best females that you have with your best males, and select each year from these the very best and breed into your stock the natural instinct of producing their kind as the result of putting the best together year after year. From such matings will crop out often a splendid show specimen of value both to exhibit and to breed from, and such should always be made use of to reproduce its kind.

Care of Exhibition Stock.

Having selected and prepared your fowls for the show-room it is of equal importance to care for them properly prior to the show, while there, and when they return. All this is necessary for their future welfare. Many really good fowls are destroyed for future usefulness in the way they are handled at the shows and by their owners afterward.

When feeding prior to going to the show and while at the show nothing is so good as the best quality wheat and some broken corn, not whole corn. Some good sharp grit of some kind should be in the feed-cups all the time. A fowl can not have nor will it take more grit than is needed at this most trying time. In addition to this give the fowls some sunflower-seed, not too many for there is too much shell to them. Do not feed soft mash food at this time as it has an ill effect on both flesh and plumage.

There is a kind of patent food that is made use of at the shows that is not good for many fowls, as it has a tendency to scour and physic them. This makes them feel bad, soils their plumage, feet, and litter, and sends them home in bad condition. All this should be avoided and can be if nothing but good, sound wheat and some cracked or broken corn are fed to them prior to and during the show. When the fowls come home is a most trying time. Usually they come from a warm hall and car into a cold henhouse. Then is the time the true fancier shows his art in handling and caring for his fowls so as to avoid bad results and the spread of disease if such has been contracted.

To best care for the fowls on their arrival home they should be put by themselves in good dry pens where they can dust themselves and have some exercise. Their best interests may be served by having their first meal of stale bread soaked in hot ale and fed to them warm in the ale so they may drink a little of it if they will, then leave them to be quiet. It is best to keep them away from other fowls until you are certain that there is no disease among them. This you should be able to determine after a week or ten days. During this time make them all hunt and dig in deep straw for all the grain they get unless they are feather-legged fowls that you wish to show again. These must not be allowed to break or injure their foot-feathers by scratching for food. If not to be shown again and to be used for breeding let them dig and scratch for food like the others.

If all would give this consideration to their show birds there would be less sickness and death among them. If it pays to have fine stock it will pay to look after them in the proper manner so as to save them for future usefulness. It is the care we give our fowls that counts for their benefit and our profit in the end. Hundreds of fine show specimens die shortly after coming from the shows and all or at least much of this might be avoided if we would care for them better and pay more attention to their comfort while at the show and on their return. Those who do this lose but few.

We have in mind one who goes over the fall circuit with five or six hundred birds. One would think that ten weeks of continuous showing would kill the whole lot, but as a proof of the care given and the successful management these birds will go on every week winning under many judges in all parts of the country, often showing against fresh specimens every week, and many of these fowls are in better condition at the end than when they started. It is to be expected that quite a number will be lost; the greater part of this loss, however, is among the young stock when they first start out. This is an object-lesson of what good care and handling will do.

WATER-FOWLS.

Swans, Geese, and Ducks of Many Kinds.

Their Early History and Gradual Improvement Until They Fill a Position of Prominence as Exhibition and Market Fowls.

(Concluded from last month.)

CAYUGA DUCKS.

The original home of this duck is credited to the lake of the same name located in Northern New York. In shape they are like the Rouen, in color a glossy, greenish-black with black shanks and bill. This is a beautiful table duck and is worthy of cultivation as such, also as an attractive exhibition duck. They are quite prolific, mature early, and are very hardy and could easily be trained into a beautiful plumaged duck. The fact that they show an occasional white feather is no proof of impurity, and with care even this might soon be bred out of them. These ducks have been more cared for in England than here. Of their history in England Mr. Wright states as follows:

"The Black Cayuga Duck is called after the lake of that name, and comes to us from America, though a large black duck which bred pretty true was known half a century ago in Lancashire. The first American specimens were sent to us by Mr. W. Simpson, in 1871, and the late Mr. J. K. Fowler imported them a few years later. These early specimens were not very large, and were rather dingy in colour, and there is no doubt that they were crossed with Black East India ducks in order to get the green gloss of the latter. This was accomplished, but kept them still small; and they were afterwards crossed, by some with Aylesbury and by others with Rouen, to get size. Unfortunately with this the type was also changed, as the original birds had no 'keels,' while the modern English exhibition Cayuga has this feature very pronounced. It has thus been made an exhibition duck, at the expense of popularity in the market.

"Owing partly to this change, perhaps, the Cayuga has never quite had its deserts; for general consent attributes to it decided superiority in flavour over any other of the *large* breeds. It is now a large breed, very similar in size and shape to the Aylesbury, and exhibited about the same weight, the plumage being a rich black heavily glossed with green, the legs a sooty orange, the bill a leaden or bluish black, with an intense black splash in the middle and a black bean at the tip. The skin is very white. The breed is hardy, matures early, is a very good layer, and of more quiet and stay-at-home habits than most. If ever the Cayuga should come into fashion, these qualities would be in its favour as a market duck; but the black feathers would of course be against it, and may be a reason why it is so little bred. After the first year Cayugas are apt to moult more or less white feathers, especially at the base of the bill; but this is no sign of impurity of race."

CALL DUCKS.

The Call are our bantam ducks. The pure white is a miniature of the Aylesbury, the Gray Call is a miniature of

the Rouen. The smaller you can have them the better. They have a peculiar squeaky call and are very active on their feet and wing, but quite domestic and can be bred at large with safety. These beautiful little ducks have become quite popular with us of late. Their greatest fault as usually seen is too much size. They should be as small as possible and prizes should be withheld from over-sized specimens.

EAST INDIA DUCKS.

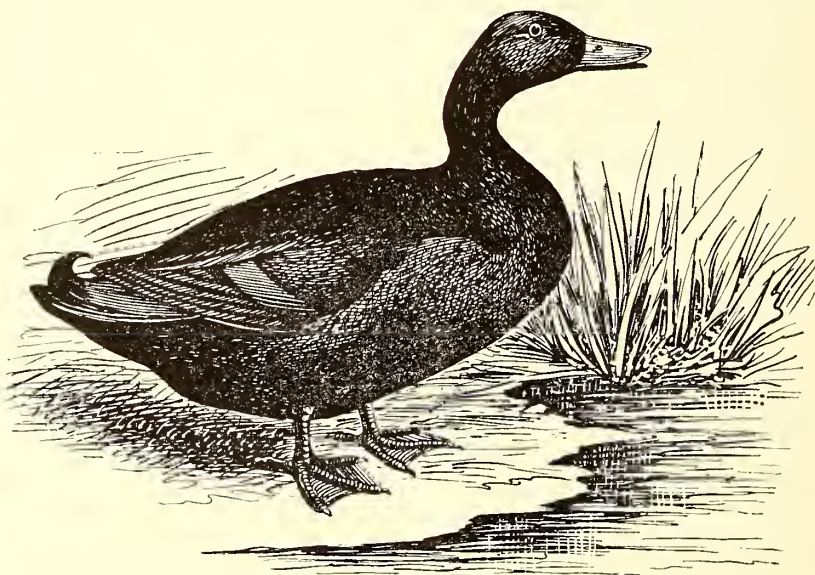
Better known as the Black East India Duck, this duck is also known as the Buenos Ayres Duck and Labrador Duck. It is said to be a descendent of the Mallard and is fertile with all other breeds. It is a small duck of beautiful, rich black plumage, and might be added to the list of bon-ton ducks and be classed with the Call. They have been shown under four pounds per pair, and there are but few of them in their purity. This gives a chance for some one to

crop out in flocks of common white ducks when neither of the parent ducks show the crest. We saw three of them of good quality in a flock of about twenty old and young, and among these the parent ducks that did not show the crest.

These ducks are scarcely mentioned in modern publications but in early-day poultry books we find them mentioned. In early days they had them of many colors—pure white, solid black, mixed black and white; all of these probably came from the tufted duck of Australia. There is also mentioned the Red-Crested Duck of New Zealand. These ducks are of a dark gray color on the back and have the red crest on head. Some, again, think the crest may have come from a cross with the Wood Duck and others put forward the accidental appearance as with geese, some of which have grown crests, but with the geese this has not been perpetuated, while that of the duck will reproduce and when encouraged by care in selecting fine, large crests may be secured.

BLUE SWEDISH DUCKS.

This is a new breed of ducks with us. They have been pushed into prominence in this country by those who know of their sterling qualities. These ducks are much like the Cayuga in shape and should have plumage like the feathers of the Andalusian fowl. There is great possibility of color-quality in them. If well handled for quality they may become a thing of real beauty, and when



BLACK CAYUGA DUCK.

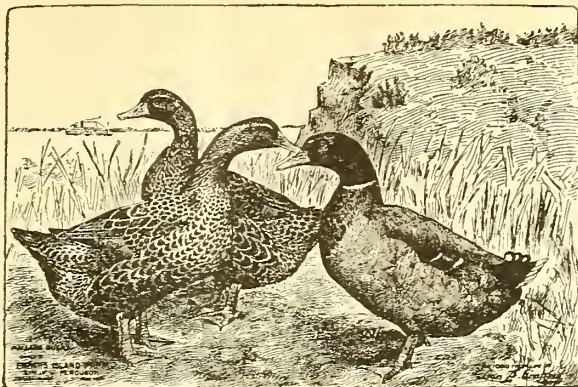
cultivate them and bring them to the front, but like the Call Ducks all over-sized specimens should be culled out of exhibitions. Small Cayuga Ducks are not Black Ducks. The East Indies have them in their best and purest type and discourage in them, as in all fowls, any shortcomings and poor qualities.

CRESTED WHITE DUCKS.

These are an attractive white duck of medium size with a crest of feathers on the head. This crest grows out from the other plumage in a ball, the head-formation not being changed in these as in the crested fowls. You may frequently see the crests on the ducks turn to one side or roll over on the neck. These White Crested or Topknot Ducks often

we couple with this their ability to lay quite a number of eggs and to produce high-quality table ducks we have the combination that must please the farmer. Mr. Lewis Wright in his new book on poultry writes:

"Blue races of ducks are obviously allied to black, and have often appeared. The late Mr. Teebay several times told us that about 1860 there was a recognized local race of large blue ducks in Lancashire, and more or less of that colour would be produced by crossing white with either black, or even any dark breed like the Rouen. The same colour has been imported and bred in the United States under the name of Blue Swedish Ducks, which it is said really were introduced from



ROUEN DUCKS.

northern Europe, and only differ from the foregoing in having a white throat or semi-collar at the front of the base of the neck. More recently blue ducks have been bred and sold as 'Orpingtons.' There is no reason why ducks of such a colour should not prove as large and profitable as any others; but the colour is not attractive, and they certainly have no points of advantage over the standard varieties, and can scarcely be called a breed, varying considerably in the colour of their progeny.

"A more successful attempt to create by crossing and selection a new breed of ducks which should exhibit real superiority in useful qualities, has resulted in what are known as Campbell Ducks, produced by Mrs. Campbell, of Uley, in Gloucestershire. These are now bred in two colours. The original strain was descended from one duck which exhibited most remarkable laying powers, and was probably something of the Rouen colour, since the original Campbells are somewhat like Rouens in appearance, but much lighter, with a plain head of grayish-brown shade and no streak running from the eye."

RUNNER DUCKS.

The Indian Runner Duck, as called, is an egg-producing duck much as is the Leghorn. They are small and handsome and quick to grow, but their size is against them for market purposes.

"The best account of their origin is that by Mr. J. Donald, of Wigton, who states that the first were brought to Whitehaven about fifty years ago by a sea-captain, who noticed in India their erect carriage and active habits, and on being told of their constant laying, and that they would nearly pick up their own living, brought them home as a present to some friends in Cumberland. A few years later he brought home more from the same locality, and from these two lots all the present stock are descended. They gradually made a local reputation in Cumberland and Westmoreland, and were a good deal crossed on the common ducks of those two counties, but remained practically unknown anywhere else till about 1890. Then a few breeders took them up, and eventually a large class of twenty-one pairs was collected at Kendal, chiefly by the efforts of Miss Wilson-Wilson of that town. This was the real beginning of their popularity, the display at Kendal being rapidly followed by classes at the Dairy, Crystal Palace, and other great shows.

"This duck is small, the drakes only weighing $4\frac{1}{2}$ to 5 lbs. each, and the

ducks a pound less. The plumage is very close and tight, making them appear rather small even for their weight. The head is flat, making the eye appear near the top of it, and the head very long and fine looked at sideways; and the bill, which is thick at the base, comes out very long in the shape of an almost straight wedge, dishing or concavity on the top being a fault. The neck is long and thin, and the whole body also long and slender, the breast having no keel and being carried high in front, as also the head, upon legs set far behind. In this attitude the bird literally does 'run' quickly along the ground. The legs are fine in bone, and orange-red in colour.

"In colour, two schools are recognized, the fawn and the grey; but there is very little doubt that the fawn is the original colour, and the grey the produce of crossing it upon local stock, which has however been since bred true to type in other respects. The bill is yellow when hatched, but gradually becomes green, the drake's being of a rather more yellowish shade than the duck's. The head has a dark cap, divided by a white line from dark cheeks below the eye, which are separated by another white line from the base of the bill. The neck is white to about an inch above the shoulders, from whence descends a coloured breast below, and on the back is a large heart-shaped patch, whose point reaches to the tail. The tail and posterior end are coloured. The fluff and under parts are white, up to the coloured breast, which commences about half-way between the legs and the point of the breast-bone. The tail of the drake is darker than the

rest. Whether grey or fawn the colors should be as uniform as possible all over and evenly cut where it joins the white."

MUSCOVY DUCKS.

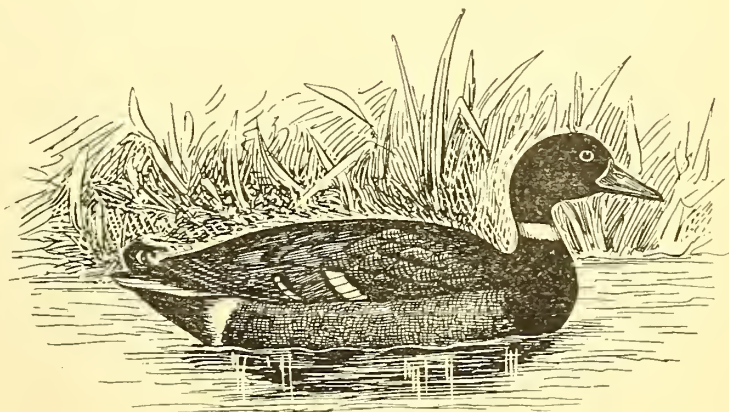
This is a distinctive race of ducks known as the Musk or Brazilian Duck, also as the Peruvian or Muscovy Duck. This alone is credited as not coming from the Mallard Duck.

"It comes not from the north at all, but from South America; is very different in many characteristics; and the progeny when crossed with other varieties appear to be real hybrids, being decidedly sterile *inter se*, though fertile more or less with either parent strain. The name is derived from an odour of musk which pervades the skin, but which disappears when cooked. The generic name is *Cairina moschata*.

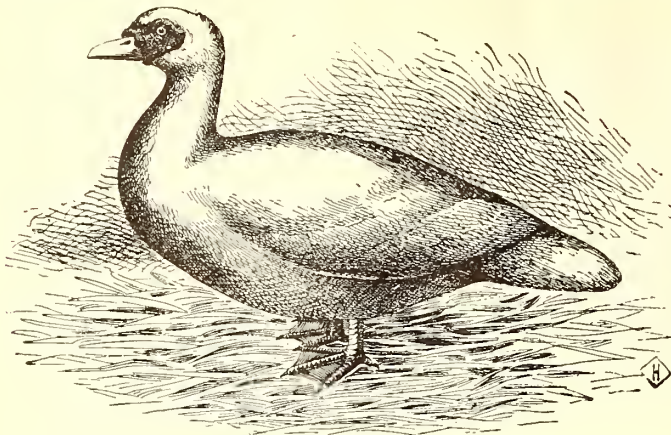
"The wild Muscovy duck is very agile, often perching upon trees, and even making its nest occasionally in such situations. Another peculiarity is the disparity in size between the sexes, a fine drake weighing, perhaps, 11 lbs. or 12 lbs., while the female will be only 6 lbs. or 7 lbs.; and the male has no curled feathers in his tail like other breeds. The feathers on the body are very large and broad, and often appear loose as if ready to drop out. The head of the drake is very large, and in both sexes the cheeks are naked, with scarlet fleshy carunculations, very developed in the male, and giving him a peculiar leery and wicked expression. This is not belied by his temper, which is very bad with other ducks and poultry, and the drakes also fight fiercely among themselves, another point in which they differ from other breeds. The period of incubation also differs, being from thirty-four to thirty-five days.

"The general colour of the Muscovy Duck is pied black and white; whole white, whole black, and blue-dun being also found. The legs are pale yellow, and the toes have very sharp claws. The eggs are large and white, but the duck is a poor layer. The flesh is rich, and at one time the bird was popular in America, and considerably used for crossing; but this has been nearly abandoned, and the breed can not be considered a profitable one for market ducks."

Our Standard only allows the Colored and the White Muscovy, but none is more beautiful and attractive than solid black when rich and bright in color. At all times and with all colors much depends upon their condition for attractiveness.



MALLARD DUCK.



MUSCOVY DRAKE.

At some future time we shall hope to lay before our readers an extended account of ornamental ducks and geese of which there are a number of attractive breeds.

Pea-Fowls and Guineas.

The pea-fowl comes from eastern Asia. As old as time are they. The common pea-fowl is quite as well known amongst us as is the Guinea-hen. They are beautiful birds and should be more generally kept. A writer of India states that in wandering through the jungles he saw the pea-fowls in such numbers as to surprise him.

Besides our well-known variety there are the Japanese pea-fowl, the blue-winged pea-fowl the female of which is almost white, also a pure white pea-fowl. Naturalists claim that the two last mentioned come from the first-mentioned variety. Of all these the Japanese is the richest in plumage. The crest is larger and longer, the blending of glossy green and copper-color with a golden hue that glistens with metallic richness is beyond description. These are seldom seen even in gardens or parks. The pair that belongs to Mr. Homer Davenport, of New York, has attracted great attention, as have the white ones owned in Philadelphia. All these fine-plumaged birds should be gathered into our public gardens for the edification of the public.

DOMESTIC PEA-FOWLS.

Our common or domestic pea-fowls may be kept like turkeys about a house. If kindly treated they will not wander far, but will roost in the trees near the house and make their nests among the shrubs. They will neither do well nor breed if confined. When properly fed night and morning they will not wander far from the house. The best food for them is mash once a day, as is fed to the chickens, and corn at night. To one male it is safe to have two or three females. If they have young feed should be provided in plenty where they can get it the same as for chickens. The males are very cross to other poultry and will kill and eat young chickens.

It is best to let them make their own nests and rear their own young. Feed should always be where the hens can find it, when they come from the nest, as should water. The same attention should be given them as is paid a hen and her brood, only they should be left to run about and care for themselves

and their young. The young are tender and do not do well in damp localities; they do better on high, dry ground. The young should have plenty of animal food. Spratts' food and ground oats are good for them, as are ants' eggs, bugs, and worms of all kinds.

The season of molt is hard on them, specially on the male, who loses so much in the demand for new plumage. At this time the male goes to himself and should be let alone and plenty of food supplied him. When about three years old they gain their full length of feather. They are a long-lived fowl, often living over thirty years.

GUINEA-HENS.

The Guinea-fowl belongs to Africa. Several kinds are scattered throughout the entire country from East to West. There are several varieties of them such as the Crested, the Vulturine, and the Helmet, and to the latter our common Guinea belongs.

Those of the crested variety are not so large as our common Guinea; they have a crest in place of the knob of the others. The spots are blue in place of white, and neck and wattles are blue. They are seldom seen out of zoological gardens. The Vulturine has the bare head and neck like the vulture. It has beautiful plumage and flowing neck-feathers. Its colors are blended with brown or dull black, striped with white down the center, and dotted with white and margined with blue. This is a very rare bird, indeed, and is seldom seen even in menageries or gardens.

OUR COMMON GUINEA.

This species is quite as common as the turkey. They are semi-domesticated, of rather wild nature and will not live nor lay their eggs in a henhouse. They will eat with the hens, but much prefer their own company, and like to run about in pairs. The males will join with more than one companion but the females are usually true to their mate when paired with him. The Pearl Guinea is the best known of them all. The name is applied as a recognition of the pearly white spots on the purplish ground-color of the plumage. The other varieties are the pure white Guineas and the broken colors, a cross between the White and the Pearl.

At times we see slate-colored and blue Guineas; both are sports or poorly-colored specimens of the Pearl Guineas. Just why none of these has been placed in the Standard we can not say, at the same time they are much oftener

seen in shows and at fairs than are some of the fowls that are in the Standard. We saw a short time since ten pairs of White Guineas on a farm. They were mated in pairs and all came from an original trio. They had the range of a very large estate, but so far as the men on the farm can tell they have never roamed out of sight of the barn, nor will they come to be fed even in winter.

White Minorcas.

The White Minorca has cast its shadow over the land and made so strong an impression on those who foster them as to have gained a firm foot-hold. They are a handsome fowl and a pleasant fowl to handle. Their eggs are fine in form, color, and size, no eggs surpassing them in any of these qualities. The Whites on the average are as large as is proper for a true Minorca; some of the blacks are larger, but with them as with all fowls that are grown over size, when beyond the limit that which is gained in size is lost in egg-production. There is a limit in almost everything and beyond this it is not best to go.

The White Minorcas are a true Minorca in every way. They have the proper shape; their color is true white; their shanks and beak white; head, comb, and lobe, pure and true to rule. All these features are as well defined as in the Blacks and they have the advantage of having the present popular color of plumage. They are considerably larger than a Leghorn, and we should like to see a full lot of them tested as egg-producers, thousand per thousand of each as producers of market eggs, so as to know which would produce the most value of eggs per year and the cost for keeping each for the year.

They have in these, as with the Blacks, the Rose Comb variety, and some very good ones at that. They have not been bred so long, but are of good quality and form of both comb and body. There is no reason why both the Rose Comb Whites and the Rose Comb Blacks should not become popular, for they are both good, first-class fowls for all purposes demanded of them or the Single Comb varieties.

Feed Sparingly in Summer.

Don't over-feed the old fowls in hot weather. Feed but little to those that have the run of a farm. Those in confinement should have plenty to keep them in good condition and no more. All should have all the vegetable and green food they will eat and plenty of grit and water. Oats and wheat are the best hot-weather foods for hens. Screenings is plenty good enough for fowls that have the run of a large tract of land where they find seeds, berries, bugs, and worms. Fattening food only creates heat with no good results unless you wish them for market as soon as the molt approaches. When you wish them to grow fat in summer so as to be ready to kill feed plenty of rich mash-food and corn; this with plenty of green food, grit, and water will fatten them, but laying hens only need to have enough food to keep them in good condition during hot weather. Care and consideration will be of benefit to the fowls and a saving to you; at the same time don't feed too little, for that will do more harm than the fat. Hunger is worse than fat.

ORNAMENTAL WATER-FOWLS.

The Stately Swan not the Peer of the Summer Duck for Beauty.

We shall leave to the naturalist the settlement of their origin, while we grant to the fancier the improvement of many of our water-fowls, but the union of the two can not surpass the beauty of nature as found in some that we shall describe in this article on the ornamental varieties or breeds.

The prince of all water-fowls is the swan. Of these there are two well-known varieties, the white and the black; the former are common in England and America, and the black came from Australia. These are most beautiful and attractive as seen in the lakes of gardens, parks, or private estates. The White Swan, called the common or Mute Swan, is the largest and most beautiful; it has the orange-red bill with a dark knob, legs, and feet. The other varieties are the Polish Swan, the Whistling Swan, the Berwick Swan, and the Black-neck Swan. The Polish Swan has a paler colored knob and legs than the Mute Swan. It is smaller and its young come white when hatched. Those of the Mute Swan are gray till a year old and the bill is dark in color. The color of the bill and plumage changes after they are a year old.

The Whistling Swan is white, is smaller than the others, has no knob, is shorter in neck, and derives its name from the noise it makes when flying. The Berwick is quite similar to the above but smaller. The Black Swan is, if possible, more beautiful of carriage than the White Swan, its neck is more slender than the neck of the White

Swan, its bill is orange-red with no knob, its plumage solid black except the flights which are white. The Black-neck Swan has the white body-plumage and the black head and neck. Only the common White and the Black Swans are generally known.

The Gambian Goose has somewhat of the upright carriage of the crane; it has long legs, a knob on the head, and a long red bill. Its shanks and feet are red and its plumage broken white and black. With this might go the Egyptian Goose, for it is of much the same shape but smaller and most beautiful of plumage. This is recorded in our Standard as one of our recognized breeds of geese and is often seen in the New York and Boston Shows. These geese are most attractive and are bred by some who have the conveniences for them. Their plumage is a rich combination of orange-gray and glossy black, that shines and glistens with metallic luster.


The Sabastopol or Frizzled-feathered Goose is a curiosity in its line. It is a pure white goose about the size of our common goose and the feathers of the body back of the shoulders are long and streaming like ribbons. This goose can be bred the same as other geese, as they are quite tame, hardy, and prolific. Mr. Smith, of Whitney's Point, has some of these geese that he has been quite successful with, even having gone so far as to cross them with the Embden, proving that they belong to the same family as other geese.

FANCY OR ORNAMENTAL DUCKS.

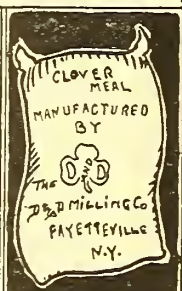
We could fill pages of description of the many kinds of beautifully-plumaged water-fowls, but it is not our purpose to deal with sporting fowls, or rather fowls for the trap and gun, as our province lies within the range of that manner of fowl that may be bred in confinement or in and about a country home. We have mentioned the Canada Goose in our more extended article in the August number, so shall only add here that no other wild fowls can be kept with more satisfaction than they.

The Call Ducks and the Black East India Ducks might be classed with the ornamental ducks, but having mentioned them before shall only say of them that the smaller they are for the fancy the better. The little Call Ducks are one of the variety, pure white, the other colored like the Rouen. The East India is black, and the more brilliant in color the better. Those large specimens shown as Call and East Indian should be ruled out. Fine specimens of these varieties have been shown at four pounds a pair, but usually they are five pounds a pair and over.

The Mandarin Duck of the Celestial Empire is the most beautiful in plumage of any of the ornamental ducks. They are small and very active and fast, and are found wild about the Ameer River. Those that come to this country are from the tame stock kept by the Mandarins about Peking. Their bodies are small and compact, and the drake has a beautiful head-dress of feathers that flows backwards over the head and this crest can be raised or lowered at will. The neck has a hackle of long, flowing feathers of beautiful color; these feathers are rather stiff, of a rich, red-chestnut color, and are called whiskers. The crest is of green, purple, and chest-



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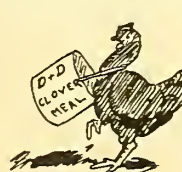
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AN EGG WITH EVERY STEP

D. A. S. P.

nut-color bordered under with creamy white; breast and shoulders are deep claret-color with bars of black and white; under body, white; back, shaded brown; wings, darker with gray edge and blue and on each side of the wings is a fan, formed of feathers that stand up like the sideboards to a wagon. The bright blending of beautiful plumage with the red bill and shanks and the bright black eye is most attractive. The duck is quaint and sombre in color. She has a crest and her plumage is a greenish-brown that is mottled. She has white eye-marks and a dark-colored bill. In summer the drake casts his whiskers and wing-fans for summer plumage.

Our Wood Duck, that is known as the Carolina or Summer Duck, comes next to the Mandarin for size and beauty. This duck is a native of our country and the West Indies. Both these and the Mandarin are fond of perching in trees. The Wood Duck will hatch their young in nests above the ground. The drake of this variety has the head-dress, but no whiskers nor fan like the others. The color of the drake is a beautiful combination of green, violet, and white bordered with black and spotted or lined with a yellowish drab; under body, white; bill, shanks, and feet a reddish color. The duck has but a small crest. She is of a bronzy-brown color spotted on the sides and white under body, and she has white eye-marks. Both these and the Mandarin will breed in confinement. They will lay two or three nests of eggs in the season which can be taken and put under bantam-hens. When hatched the young should be confined in a warm, well-shaded place with the mother-hen. Do not provide much water at first and confine them closely to the hen till fairly well started. At all times they must be confined within an enclosure or pinioned before they can fly. All manner of wild ducks may be kept in an enclosure if pinioned, and this is done by taking off the first joint of the wing.

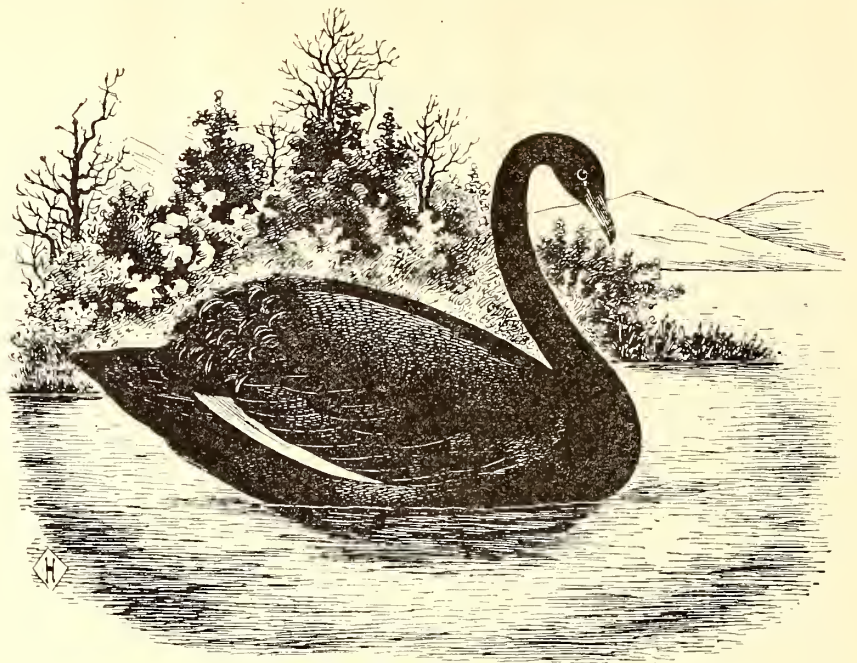
Booted Bantams.

White Booted Bantams are occasionally seen with us at our shows, a few of good quality but most of them rather more of White Cochin Bantams than Booted Bantams. The real Booted Bantam should stand rather erect, have white shanks and beak long, stiff vulture hocks, and long foot-feathers more on the outside toe than on the middle toe. In England they have some of these of black, also cockoo color, and some brown ones are occasionally seen.

We are of the opinion that if some really good Booted Bantams might be bred and shown they would prove to be profitable to their owner. All would depend upon their good quality, for there are plenty of poor quality now that do not pay their keep, and it would be a waste of time to go on with such inferior specimens. Have them good in quality and they will bring a price that will pay for their keep; if, however, they are not of the best quality they will not sell at any price above their value as broilers.

The Winter House.

All poultry-houses for laying hens or breeding stock should be so constructed that the windows can be open during the day in the coldest weather. This kind of ventilation is good. When it is



BLACK SWAN.

too cold have a muslin screen for in front of the window, so as to let the air in and keep the wind or snow out. Don't be afraid or worried about this, for it will keep your houses better than if shut in tight. Just so they are shut up at night and even this is not necessary if cloth curtains cover the windows unless it is very cold, indeed.

When a poultry-house is shut up all the time it is possible for it to be colder inside than out. The confined damp and cold combined is hurtful, but the dry, pure air within a house that is full of fowls and properly ventilated is better for the hens than the cold, damp air of a confined, improperly-ventilated house. Dry floors, dry air, and dry houses through and through are what is needed. Fowls that are well fed and properly fed will do well in an open wagon-shed if perfectly dry and with no draughts.

Improve the Egg-Yield.

It is money in your pocket to have your hens lay more eggs than formerly, and this can be as the result of better care. If you want eggs feed for eggs; if you want fat, feed rich, fattening food; but for eggs feed that which comes closest to their natural summer food. As soon as spring comes the hens that did not lay all winter begin to lay simply because they have the food to produce the eggs. Grain, greens, and animal food are the kinds of food for egg-producing. Hens must have an assortment of grain such as wheat, oats, barley, a little buckwheat and corn, plenty of green food, and meat if you wish them to lay in winter.

The fowl that has the run of the farm in the spring always lays well at that time because she finds at least half of her food in green stuff, bugs, and worms. If they could do the same in winter and keep warm in their houses they would lay a lot more eggs. Think of this when winter comes and feed for eggs if you wish them and do not feed for fat. Proper feeding is sure to increase the egg-yield every time.

Care of Fowls and Chicks.

As fall approaches look out for the fowls both old and young. While in their molt they will take cold more readily. Don't keep them warm, but they must be sheltered from the draughts and wet. A hen will do better roosting in a tree than in a draught. A man or a cow or a fowl is better out in a field in the severe weather than to sleep in a house if a draught of cold or damp air blows on them. The whole front of the henhouse may be open with but little harm when there are no draughts or currents of air drawing through the house.

The same is true of the growing chick. Have seen them thrive and do well out all winter in a good coop that was open at the front but closed all around. Comfortable and dry quarters are what they need. Heated quarters are not needed; in fact are not desirable nor beneficial. The air when it comes in on the one side properly will make the house dry and healthful both winter and summer. There is scarcely a day so cold in winter but the front of the house should be opened for ventilation.

Geese Are Healthy.

Geese, and in fact all water-fowls, are very healthy. They are troubled least of any fowl with lice or vermin of any kind. They find most of their food in grazing and a few of them may be pastured with the cows, although too many of them are not best for the cow or cattle-pasture, but where low, wet lands exist the goose will prosper. Hens may hatch the geese and care for them till they are old enough to shift for themselves; after that they may be turned into any pasture-land where there is a water-supply and they will find their own living. When fed in addition to this they will grow faster and larger and be ready for market or the table that much sooner. Geese are so healthy that it is seldom that one is lost by illness or is even ailing. This makes them very easy to handle, for after they are a week or ten days old they are all right if provided with food, water, and grass in plenty.

PREPARING FOR EXHIBITION.

Timely Remarks on the Care and Preparation of Birds for the Show-Room.

If proper attention has been paid to what we had to say on this subject in our last number your stock will be fairly well grown and selected for the best results. If this be true all well and good; if not, lay this aside while you look up the other article and read it over prior to reading this so as to be fully advised of the first work needed for success.

There seems to be a well-established notion that fowls intended for exhibition must be confined for weeks or even months prior to the time when they are to be shown, while, in fact, it would be far better if they could run in the underbrush and roost in the trees, so far as high condition is concerned. Fine condition is worth much to an exhibition fowl and this can be best gained through living in the most natural state possible and living amongst the brush and bushes and feeding on bugs, worms, nuts, and berries of all kinds. The nearer we can rear them to this natural way the better for them, for the better the condition the finer the plumage.

The plumage of white birds must be protected from both rain and sun. Polish, Hamburgs, and delicate bantams must have care and attention for their special wants. None but experts can handle them successfully for the best results in the show-room. Many little attentions must be paid them, such as plucking the crests at the right time, caring for combs and lobes and having the full growth of long, flowing sickles, as well as health and vigor. All these special features must be learned as the result of experience. All these are matters of special care and attention that must be given your stock all through life. It is utterly impossible to pick up a rough, unfinished specimen a few weeks prior to an exhibition and make a show bird out of him or her as may be. This is our reason for calling attention to our first article on this subject.

Feed your show specimens for rich, beautiful plumage. Give them plenty of rich, fattening food, but in doing this it is well to remember that white-plumaged fowls should not have iron, flaxseed, or yellow corn to eat during their molt, as any one of these has an inclination to discolor the plumage. The best for white fowls is wheat, white oats, white corn, and green cut bone. For colored fowls, iron, flaxseed and all kinds of grain are good. The iron gives a deep, rich color and strength to the blood and this adds color to the plumage.

WHEN CONFINED.

When the intended show specimen must be shut up or confined in close quarters, provide plenty of shade, green food, and grit. All these are absolute necessities for their best interests. Should their plumage become soiled it is little matter, for all show specimens should be washed before they are shown. A good, clean washing is of as much benefit to a black fowl as it is to a white one. For this reason the dust on the plumage is of no consequence for it can be removed, but look out at all times for scaly legs. The use of a good lice-paint once a week on the roosts will prevent this. If you have it get rid of it

as soon as possible. It may be accomplished as follows:

TO CLEAN THE SHANKS.

Paint the shanks and feet every day for three or four days with kerosene oil. This will loosen the scales. Don't pull them off so as to break the skin or bring the blood on the shanks, for this is bad. Go on applying the oil till it is all loose and comes off. The running in the dirt will not hurt them in the least. Let the dirt stick to the oil if it will. So soon as the scales are all loose and gone or nearly so, take a bucket of hot water and soap and scrub the shanks and feet once or twice a week with a stiff brush. Dry them well and rub with an ointment made of vaseline and sulphur. Rub this well into the shanks and feet and let them run. Keep up this washing and oiling till the shanks are smooth, then wash them very clean, dry, and polish with a cloth or a chamois skin. Plenty of lice-paint on the roosts will keep this away when you are once rid of it.

THE HEAD AND COMB.

The use of oil, vinegar, etc., about the head and face of a fowl is bad. You will note that after using any of these a scale forms like dandruff. These strong applications cause this. Warm water with a little toilet soap will do. If the face, comb, and wattles can be cleaned with the warm water alone this is best. A good, clean wash is all that is needed and the mildest application possible is the best for this. Perfect cleanliness of the entire specimen when shown is greatly in its favor.

TO WASH FOWLS THOROUGHLY.

Place three tubs in a row, fill one with warm water that is pleasantly hot for the hands, the next with milk-warm water, the other with cold water. Submerge the fowl to be washed gently till thoroughly wet all over; take the head between the hands and thoroughly wash all parts of the head; with a cake of Ivory soap in your hand rub the plumage full of lather, don't be afraid, rub it right down to the skin; with your fingers wash the body as well as the plumage; rub and wash with the hands till the whole plumage and body are coated with soap; scrub the shanks and feet with a stiff brush and soap; then wash the entire body clean in the warm water and wash out all the soap and dirt; be sure you have it clean; rinse out all the soap possible in this water, then hold the fowl up and let the water drip from it. Next dip the fowl into the tub of milk-warm water and thoroughly rinse out all the soap and dirt; then hold the fowl up to drip, then plunge head and all into the cold water and rinse again. Hold the fowl up till the water drips out; hold up by the legs till the wings have shaken out, then place on a table or your lap and dry first with a clean sponge, then a towel. Always rub the right way of the feathers. After fully dry put into a coop that has plenty of straw on the floor and place in a very hot room or in front of a hot fire. Be very careful not to blister the head, face, comb, or wattles, or to scorch the feathers. Keep here till dry, then remove to a cooler room or house.

When thoroughly dry the shanks can be polished with a woollen cloth or chamois. Rub the shanks and feet so they shine, but do not use any oil or anything unless it is absolutely necessary, for nothing looks so well as a clean, well-polished shank, if all right as to color and finish. Oil or color of any kind detracts from the beauty of a well-finished shank. After this keep the fowl perfectly clean for the show-pen. About three days before the show is a good time for washing the fowl as this gives plenty of time for the feathers to dry and fluff out all right. Washing improves a black fowl quite as much as a white one.

GOING TO THE SHOW.

Nothing can be better for sending a fowl to the show than a new shipping-coop, one entry in each coop. Don't use old shipping-coops. Use new ones and only put one entry in each coop. If a single entry, one fowl; if a pen, five to the coop. Don't put two or three single entries in one coop and expect the show management to pick them out. Have new, neat shipping-coops, with the top nailed down, not screwed. Use nails; screws are a nuisance to all who must open the coop. Any one may have a hammer; no one is likely to have a screw-driver. These expensive shipping-coops will do for the man who goes with his fowls, but the very best way to ship is as above, and then your birds will be found all right and sent home all right providing you put the tags on all in the right places on the coops.

Be sure all this is properly done and that your full express charges are paid to the show and then it makes no matter whether you go or not. Nearly always lost birds are the result of careless shipping and boxing. One entry only in each coop is the sure way to have them go and come all right.

HOME FROM THE SHOW.

When the fowls come home from the show put them in a close, warm hen-house where there is no chance for a draught to give them colds, and feed on mash food for a day at least, not too much. If ailing, soak some bread in hot ale or beer, squeeze it dry and feed the bread to them warm. Don't give cold water to drink, have it just so it is not cold to the hands, and this will not chill them. The giving of this attention may ward off many evils that come from the show-room. A few days of care and attention on the return from the show are worth much for their future use and breeding.

Canada's Great Annual Show.

A very attractive program will be provided for the visitors at the approaching Toronto Exhibition. We might say that this is the grandest list of specialties ever engaged for Canada's Great Fair, and should prove a good drawing card for our American friends. The entries in the poultry and pigeon departments are away in excess of anything they have ever had, and with the cheap rates that are in force, granted specially for this exhibition, from Chicago on the West, New York on the East, Washington and Cincinnati on the South, there should be a record attendance. We notice that they are spending nearly \$35,000 in special attractions alone, which explains to a slight extent the magnitude of Canada's Greatest Exhibition.



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TO AGENTS. We offer the most liberal terms to agents, and our plans and arrangements are so liberal this season that there will be money in acting as a representative of THE FEATHER. We want new agents in every neighborhood in which we are not already represented. It will pay you to write us at once and get our terms. Good profits are to be made from the sale of our publications, and it will pay you well to investigate. Write us for full particulars and free outfit.

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SEPTEMBER, 1902.

About Eggs. Eggs are a big factor in the world of finance, and each year's product adds many thousand dollars revenue to many thousand homes.

During the past year the demand for eggs has been exceptionally good, and the prices have been higher than for many years. Indications point to a continuation of those conditions during the season to come. This is a most promising outlook for the egg industry, and breeders having a good equipment of laying stock, with proper facilities for producing the largest production of eggs, can well feel congratulated on the situation. The annual supply of eggs in the United States is said to be about 8,500,000,000, or more than 700,000,000 dozen, and their value is equal to the product of our gold and silver mines. To some these figures seem large, but we know of a single hotel that used 43,000 dozens of eggs last year. If a single hotel used this number in a year, one need have no difficulty in figuring the thing out for themselves; it is rather startling at first glance, but it is true nevertheless that the egg business is not overdone. There is always a ready sale at good prices for fresh eggs the year round, and those who succeed in producing eggs in large numbers have made the poultry business pay.

Seven years ago in October we began the publication of THE *Feather* for October. FEATHER, and in that time we have had a most varied experience in poultry and poultry literature. Indeed, THE FEATHER has been a pleasure that we would be reluctant to part with, and our greatest and happiest thoughts have been in the fulfilment of our promises to our readers and patrons in advertising. From every quarter of

the globe we have received compliments and congratulations on our work, while hardly an issue goes by without a few of these flattering remarks. The career of THE FEATHER was promising from the first number, and its good work is attested by its large list of readers and its liberal patronage of advertisers. Our quarrels have been few; once in a while we were compelled to straighten out our Boston contemporary, who, somehow or other, got mixed in affairs that did not concern him. Such events go to make up history. THE FEATHER has never stood by and seen a single person wronged—not even itself. The October number will be one that will be in accordance with its high standing, and we can promise our readers a real treat. We propose making the new volume the best that we have published, and we anticipate a proportionately larger and better support than ever before. Advertisers' attention is especially called to this number as a fitting time to begin their year's business. The edition will be larger than the regular list, but the prices for space will remain the same. Do not delay sending in copy until the last moment, but send as early in the month as possible to insure proper display.

The Washington Show.

It seems to be a settled fact that Washington City is to be one of the regular show centers for poultry exhibitions. Seven years ago the shows were inaugurated, and have been in force ever since. Some of the exhibitions have ranked with the best in the country. Under the title of the Washington Poultry, Pigeon, and Pet Stock Association, the new association is making active preparations for the coming show, to be held December 8-13, 1902. The officers elected at the last meeting were E. L. Barclay, president; E. C. Duffy, vice-president; George E. Howard, secretary and treasurer. A great many entries have been promised at this early date, and every indication points to one of the old-time shows held at the National Capital. The premium-list is being prepared and will be ready for distribution shortly. Any information will be cheerfully given by the secretary. Address Box 54, Station A, Washington, D. C.

As One Fellow Finds It.

THE FEATHER is in receipt of a clipping from a Massachusetts publication giving the experience of a Mr. S. S. W., of Northampton, Mass., in the poultry business. Mr. W. says: "Perhaps a credit and debit account will show as clearly as anything how the eggs cost so much, and I will wager a thirteen-egg setting that my experience does not vary greatly from that of others. The following is a strict account."

Dr.	
19 hens, 60 cents each	\$11 40
Modern henhouse	27 36
Feed—not much of any	0 00
Water (city rates)	14
Labor (keeping hens off piazza and out of woodshed, Sundays included)	10 00
Worry and getting mad	14 10
Interest and taxes	3 00
	\$66 00

Cr.
42 eggs, at \$1.50 each

There are a whole lot of people in the same boat with Mr. W., and the astonishing feature of it all is that his eggs cost him only one dollar and a half apiece. We know some who thought they would try the business with a handful of dunghill hens and a swelled

head, who raised eggs at ten dollars apiece. Under the circumstances Mr. W. is in luck, and **THE FEATHER** is of the opinion that he should be shaking hands with himself rather than publishing an experience that is laughable and foolish to say the least. We have seen fellows rush into the thing like wild Indians and come out like tame lambs. When you hear such egg stories as above, size up the man for an instant, and then draw your conclusions.

The Hagerstown Show.

Next month the Great Hagerstown Show will be held as usual at the same place and under the same jovial superintendent, JOHN L. COST. From our correspondence with MR. COST we are led to understand that the show will be larger and better this year. This is to be expected. The large number of inducements which the management offers, and the sociable good time which MR. COST and his assistants guarantee every visiting poultryman have brought about this result. Each year the number in attendance has increased, so that to-day it is the leader well in advance of its class. Another large building has been added this year, which makes the floor space of the poultry department nearly equal that of Madison Square Garden. The coming show will be doubly attractive on account of the adjourned meeting of the American Poultry Association to be held during the show. This meeting is calculated to prove interesting to the country at large, as some very important measures are to be acted upon. The illustrated standard question is one of the all-absorbing topics to be discussed and acted upon. Those who can should by all means go to Hagerstown this year and help make it the event of the season. **THE FEATHER** can assure all a hearty welcome.

A Big Thing. Circulars have been received of the incorporation of a poultry company that has big ideas on the subject of making a gold mine out of poultry and eggs. The capital stock is placed at \$250,000 of 500,000 shares, with a par value of 50 cents per share. The whole plan is formed and figured in good style, as follows:

EGGS FOR TABLE USE—FROM

100,000 pullets,
Average 10 dozen each.
Sell for 25c. per dozen.
Less cost of feeding and caring for fowl, \$1.25.
Net profit, \$1.25 each.

\$125,000

100,000 rice-fattened capons,
Average weight, 7 lbs.
Cost to produce, 12c. 1b.
Sell for 20c. 1b. net.
700,000 lbs. at net profit 8c. 1b.

56,000

\$181,000

Dividends, 60 per cent \$150,000
Surplus fund, 31,000

It is wonderful to note the length and breadth of the chicken business, as well as the broad calculations that are made on paper. If one could only corner the possible success of an undertaking like the above he need never go prospecting for gold-mines, for he would have the corner on all such things. Just think of 100,000 plain, busy-body pullets laying ten dozen eggs each in a year—on a single plantation with 100,000 rice-

ELM POULTRY YARDS

OF HARTFORD, CONN.,

Are offering great Bargains in Breeding Stock of S. C. White Leghorns, S. C. Black Minorcas, Barred Plymouth Rocks, White Plymouth Rocks, White Wyandottes, and Light Brahmas. 3,000 chicks now growing for fall trade.

ELM POULTRY YARDS,

Box F, Hartford, Conn.

fattened capons of seven pounds each. Such golden, glimmering dreams can only come to a person once in a lifetime, and it is hard to say just what the end of it will be. **THE FEATHER** awaits results.

Complimentary.

We hereby acknowledge receipt of your calendar, which we appreciate very much. The calendar is certainly a work of art and in keeping with **THE FEATHER**.—SURE HATCH INCUBATOR CO., Clay Center, Nebr.

I consider my ad in **THE FEATHER** an excellent investment and wish you would inform me when my time is up. I want to place my ad again for the year.—WM. B. WISLER, Pine Iron Works, Pa.

I am getting grand results from my classified ad in **THE FEATHER**, in fact better than I have received from any other journal in which I advertise.—S. D. LANCE, Troy, O.

THE FEATHER is a bright and up-to-date poultryman's guide. It is the best advertising medium out; that is, it beats any poultry paper I ever tried, and I have been using **THE FEATHER** for about three years when I have anything to sell, and I have tried several other papers, but none to come up with **THE FEATHER**.—E. R. I. FREELAND, Barrackville, W. Va.

Enclosed please find another year's subscription to **THE FEATHER**. We regard **THE FEATHER** as one of the valuable papers that come to our library.—T. A. HOVERSTAD, Supt. University of Minnesota Agric. Exp. Station, Crookston, Minn.

THE FEATHER has brought me more inquiries than any other advertising medium I have ever tried. It has nearly sold me out of stock, and brought me some grand testimonials.—J. M. D.

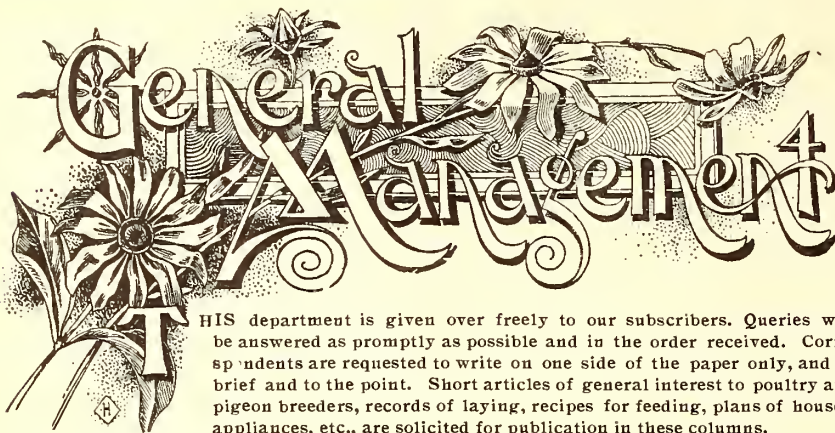
Poultry and Egg Industry.

Total Income Derived by Farmers in 1899 was
\$281,178,035.

A census report issued recently shows that of the 5,739,637 farms in the United States, 5,096,252 reported poultry. The total number of fowls three months old and over reported were as follows: Chickens (including Guinea-fowls), 233,598,085; turkeys, 6,599,367; geese, 5,676 863; ducks, 4,807,358. The numbers of nearly all these classes of poultry are smaller as reported in 1900 than in 1890, owing to the fact that in 1890 they reported all fowls of whatever age, while in 1900 only those three months old and over were reported.

The eggs produced in 1899 were 1,293,819,188 dozens, against 819,722,916 dozens in 1889. An increase in the number of eggs produced, rather than an increase in the number of different kinds of fowls, marks the progress of this branch of the industry. The value of poultry on hand June 1, 1900, was \$35,794,996; the value of poultry raised in 1899 was \$136,891,877, and the value of eggs produced in 1899 was \$144,286,158. The total income derived by the farmers from their poultry industry in 1899, representing the total value of eggs produced, as well as the poultry raised, was \$281,178,035. This total makes the poultry industry one of the largest connected with agriculture.

The foregoing figures do not include any statistics on poultry and eggs raised outside of the farms and ranges.



THIS department is given over freely to our subscribers. Queries will be answered as promptly as possible and in the order received. Correspondents are requested to write on one side of the paper only, and be brief and to the point. Short articles of general interest to poultry and pigeon breeders, records of laying, recipes for feeding, plans of houses, appliances, etc., are solicited for publication in these columns.

POLISH FOWLS.

An Attractive Family Including Some Bantams.

The Polander or Poland fowl has been known almost as long as any poultry. Both land and water-birds of many kinds are crested, but the round skull formation on the head of the Polish is peculiar to its kind. This marks them as a family to themselves, as the crown of bone on the skull is a part and parcel of their make-up, as is also their nostril formation. This is not found on the crested duck, bird, or pigeon, but it does run through a few families of crested chickens and stamps them all as of one family.

The Black Polish with the white crest was most plentiful and best known of any of this family with us, say fifty years ago, but the quality was poor as compared with our average of to-day. As we now have the Polish fowls they are a made breed of the highest order. In the early days a crest the size of a child's fist would have been a marvel; to-day such would be too insignificant for notice. Former-day Polish were smaller than a Leghorn; to-day many of them are as large as a Plymouth Rock, with crests as large as two common-sized fists, or as a big apple, as the saying is. In former years three or four would come to a show; now, large classes of good quality are often seen, and they are not confined to any special locality or breeder.

We have in our Standard eight varieties of Polish and two of Polish Bantams. Of all these the White Crested heads the list for beauty and attractiveness. They are most difficult to breed to the very highest standard, because as you increase the size of the white crest, you expedite the coming of the white in other parts of the plumage. The plumage of this variety must be rich, glossy black throughout with the large white crest. Some most beautiful specimens are shown each winter, the size of the fowl and crest and the richness of plumage making a marvel of beauty. In some instances the crest of the female is as large as a very large orange and just as round and plump; the crest of the male spreads out all around and hangs down from the head at least seven inches. Such fowls as these show the high art that breeding can be brought to at pleasure, but it requires great patience and ability to produce them.

The Bearded and Non-Bearded Golden are of a golden-bay color laced with

black and bearded. The crest is the same only that when young the females have a much darker crest and beard than when mature; it may then be black laced with bay. The only difference with them is that one variety has the muff or beard under the throat while the other has none. The rich, bright coloring of these fowls is superb and the little white that may creep into the crest of an adult male adds to its beauty. Their long sweeping tails and crowns of golden feathers give them the appearance of an open laced Golden Sebright.

The Silver Laced Polish is of silvery white, laced about with black. This combination of white laced or framed within glossy black border in each feather is attractive and beautiful. A well-turned female of this variety is among the most beautiful of all chicken-kind. If the color and markings of

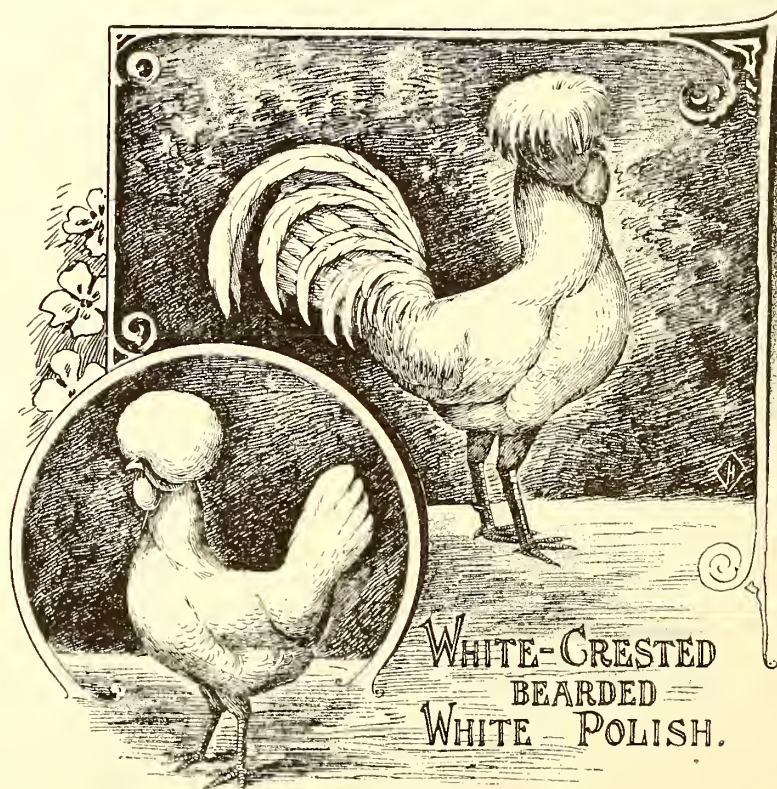
our Silver Laced Wyandottes could be as open, clean, and regular what beauty it would add to that breed! It is questionable which is the more graceful, those with or without the beard, or the well-curved throat of the non-bearded female as compared with one with a heavy beard.

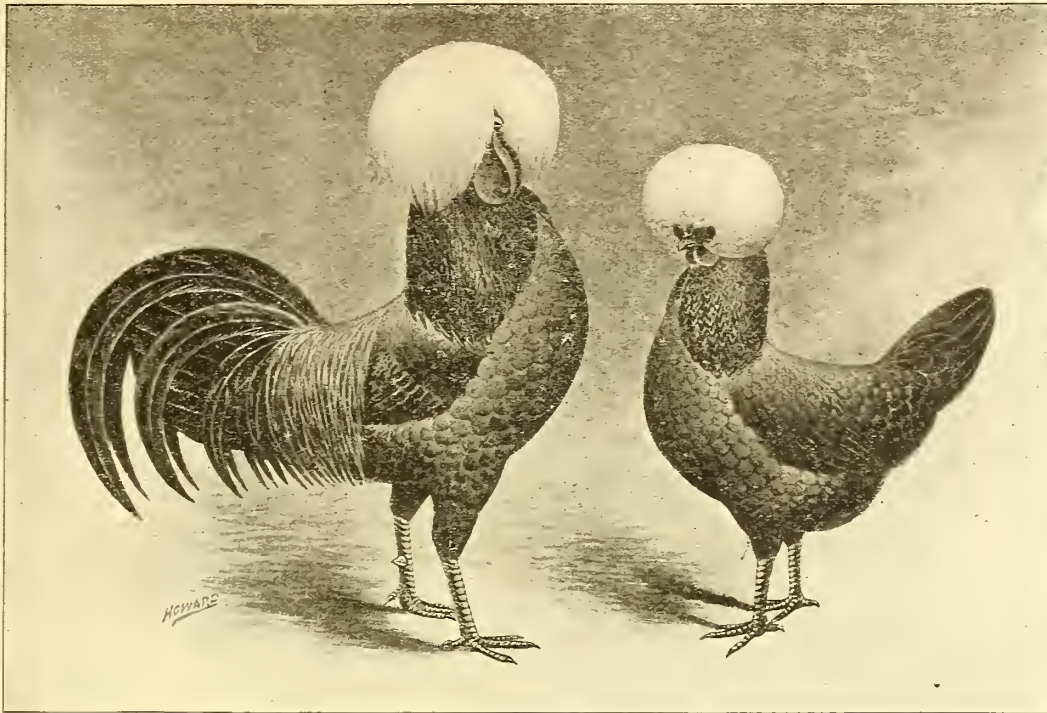
The solid White Bearded and Non-Bearded are attractive fowls, but they lack the beautiful combination of color that the others have. Their real value is in having pure, spotless plumage and very large, well-shaped crests. When these are well shown in fine condition they are attractive, but when soiled or of indifferent quality they fail of beauty and would not be considered as of any value as a high-class Polish.

The Buff Laced Polish has taken quite an advanced position of late years. Their rich buff plumage laced about with the lighter shade has a clean, clear attractiveness that is not seen on any other fowl. Each year we see the yellow or buff centers to the feathers grow richer and brighter, while the lacing seems more delicate and beautiful. In these fowls we have a combination of delicate feathers, or rather delicate colors, that would give plenty of work for ages to the most expert to bring to absolute perfection. We doubt if there is among all our domestic fowls a more elegant and delicate combination of form and colors to work with and for. This is by no means a new variety, but an old one that has come into more notice of late years.

The Polish Bantams are miniatures of the White Polish and the Buff Laced Polish. Some very good specimens of the Whites are grown and shown, but the Buff Laced have been sadly neglected. These should be little bantams with all the qualities, shape, and feather of the large Polish they imitate.

Valley Farm, Simsbury, Conn., sends an artistic catalogue free.





PAIR WHITE CRESTED BLACK POLISH.

An Elastic Standard.

Editor The Feather:

Most poultry fanciers will sympathize with Mr. Glasgow's position when he says, "To me the everlasting tinkering with the Standard is simply disgusting." Undoubtedly frivolous and unnecessary changes would be good cause for complaint, but as the Standard is merely the recorded ideal of poultry fanciers' aims, it would follow that when fanciers' opinions change, the Standard should change and record those changes, else the Standard is, in the language of the ring, "a dead one." The great difficulty is to estimate the extent and earnestness on the part of fanciers for a change. If a large majority of successful breeders of any particular variety desire some change in their particular variety, it would be manifestly unjust not to accede to their wishes. Where the call for a change is raised by a few only and those not known as successful breeders, it would be absurd to listen seriously to such demands.

At present it is impossible to gauge exactly how great is the demand for a change in weight clauses, but the question is worth the consideration of all fanciers, as every exhibitor has to consider weights very carefully at least once a year. Probably there are more kicks over weights than over any other specification in the Standard.

Under the heading "Instructions to Judges" the Standard says, regarding weights: "In all breeds of fowls having weight clauses, except bantams, deduct two points per pound for any deficit from the Standard weights, or in that proportion for any fractional part of a pound." It also says: "All other requirements being equal, the largest bird must be given the preference."

Now what are the practical workings of the above rule? It is this: Suppose I want to send an Andalusian hen from Chicago to New York for exhibition.

The Standard calls for 5½ pounds. I know that she will probably lose a pound in the journey. To save myself, I have to put on that extra pound before going. I may either breed a bird with a larger frame, or I may put on that extra pound in fat; if so, I offend the Standard which says that "an over-fat hen is not within the spirit of the Standard." Besides it is a dangerous and unwise practice to fatten a breeding hen, as well as being expensive. I am thus compelled either to abandon exhibiting at a distant point, or to take my choice between injuring my hens by over-fatness or by breeding an excessively large frame. Suppose I believe that the Standard at present is correct as to size, and that I decline to breed larger hens for the sake of being able to show them at a distant point. In that case I am forced to keep what the Standard recognizes as the proper size, and must lay on fat—or stay at home. If we all stay at home, the benefit of exhibitions is lost to us fanciers. So there we are, betwixt the devil and the deep sea! If I want to exhibit at a distant point, either I have to run the risk of endangering the health and good habits of my hens by laying on fat, or I have to violate my ideas of size and weight (derived from a perusal of the Standard) by breeding up a frame fit to hold the extra weight without unseemly fatness. The net result is, that to save my weights I have to send birds from my yards here, destined for the New York or other distant show, that are "sights"—either fat, dumpy birds (egg-eaters, feather-pullers, lazy brutes) or big-framed birds that are away beyond the true Standard size. Such birds are no good to me as breeders and my only salvation is in selling them to some sucker.

Now, weights are all right in their way; they enable the amateur to form an idea of the size his birds ought to attain, and they set a limit and are a tangible definite measurement, very

useful in certain cases. But the popular conception is that the Standard weights are merely meant as a minimum, below which you shall not go. This interpretation is largely fostered by the expression in the above quoted Instructions to Judges, which says: "All other requirements being equal, the largest bird must be given the preference." There is no penalty attached to over-weight, but there is a severe penalty for underweight: two points per pound. Popular interpretation thus stultifies the Standard: it says so many pounds, but it *doesn't mean what it says exactly*; when it says, for example, that a Minorca hen should weigh 6½ pounds, it means, as popularly interpreted, 6½ pounds or as much more as you can tuck on to the hen provided she has a shape and color resembling a Minorca.

Realizing the absurdity of the position from a logical point of view, and recognizing the resultant harm from excessive size in breeds that experience has demonstrated time and time again should be only medium in size, many breeders have raised the cry that weights should be abolished altogether. Others of us, doubtless as keenly alive to the situation as our fellows, have not been willing to go to such an extreme as to do away with weights, believing that they are useful in their way.

As a solution of the rather absurd dilemma in which we are placed now, I would suggest that we keep the present weights as an ideal standard, but allow a leeway of half a pound above, and half a pound below, the present weight without penalty, and after that allowance, the present penalty of two points per pound be rigidly applied to *either excess or deficiency of weight*. That is to say, let the present weight for Andalusian hens remain at 5½ pounds, as an ideal weight, allowing either 5 or 6 pounds to go unpenalized, but a 4-pound hen to be cut two points, and a 7-pound

hen to be cut two points, pro rata. If in addition to this the Instructions should read: "All other requirements being equal, the bird weighing the nearest to the ideal weight, shall be given the preference," we should know where we stood.

With this elastic Standard, many of the well-recognized and often-deplored hardships incident to shipping birds to poultry exhibitions, would be alleviated or in some cases abolished; the beneficial effect of a definite ideal would remain the same, though it would be applied with rigor only in the somewhat rare case of a tie; and finally the Standard would be relieved of the absurdity of saying one thing and meaning, (at least so interpreted,) another quite different thing. The present Standard, which may be called by way of distinction a "Rigid Standard," says for instance: "Andalusian hen: 5½ pounds; anything less in weight, pay a penalty; but you are invited to breed a hen as large as a house if you can." This is both a logical absurdity and an incalculable harm to good breeding. An "Elastic Standard" might say: "Blue Andalusian hen, 5½ pounds, as an ideal weight, but in view of the exigencies of travel and the imperfections of human effort, a variation of half a pound either way is permissible, except in the case of a tie when the ideal weight shall prevail; but, beyond these limits, any excess or deficiency of weight shall be penalized rigorously." Such a Standard in addition to its being strictly logical would have the surpassing merit of discouraging one of the worst faults of the present time, and that is the breeding of monstrous and ungainly overweighted specimens, a lamentable tendency probably resulting from an excusable interpretation of the clause: "All other requirements being equal, the largest bird shall be given the preference."

Now, while it is true that in certain instances a large bird is preferable to a small bird, other things being equal, it is clearly folly to run against an inexorable law of nature and to try to make a large bird out of a bird which the Creator, as nearly as we can judge, intended for a medium-sized bird. The Mediterranean for instance, is a medium-sized bird by nature, and is noted for its wonderful egg-producing qualities. If, however, we could breed Mediterraneans as big as Cochins and still retain their prolificacy of eggs, and eggs as much larger than they are now in proportion, this would undoubtedly be a great gain. But it can not be done. Mediterraneans have, it is true, been produced that are very large—much larger than the Standard recognizes as the true size, but such birds have lost the shape, style, and carriage of the breed they were intended to represent, and, worse than that, they have not retained the egg-producing qualities in proportion.

Undoubtedly if the Creator had consulted modern chicken fanciers in creating types of chickens, and had accepted their advice, we might have had chickens in some respects shaped differently from what we have now, but so far as we know, this was not the case. Apparently certain types were so constituted that the energy derived from food was intended to be converted into eggs chiefly, while others were so constituted that they diverted most of the energy derived from food into flesh and bone. Of course it is true that man by the

process of selection and by change of environments has made many great changes in the feathering and external appearance of domestic fowls. We all admit that. Bantams are a case in point. But it is yet to be shown that a breed of the egg type has ever been changed by man into the flesh type, or vice versa. The attempt has been made time and time again, but with disastrous results. The language of the Standard favoring "the largest bird," seems to have been responsible for such unfortunate efforts, and many breeders, especially amateurs not well versed in chicken biology, have been induced to buy and try to breed excessively large birds—with disastrous results. And it is equally true that many breeders have done a large and profitable business supplying excessively large birds to amateurs and the inexpert. But, supposing the Standard represents the wisdom, experience, and good sense of the poultry fraternity, even admitting its imperfections, is it wise and just and prudent thus to sanction such tendencies and practices?

Human language is notoriously imperfect and lawmakers often bring about results which they never contemplated. Was it the intention of the framers of the present Standard to encourage the breeding of a style of birds which experience covering many years has demonstrated to be in size and weight excessive, unprofitable, and ungainly? Or again, if they did so intend, does the enlightened sense of modern fanciers uphold such views?

To put my propositions into tangible shape, I would make the following change in the Standard regarding Blue Andalusians for instance: Disqualifications, shape of male, shape of female, color of male and color of female remaining as given in the Standard now. The weights would also remain just the same as given, but the following note would be appended, under weights:

(Note. All other requirements being equal, the bird nearest to the above weights must be given the preference. A variation of half a pound more or

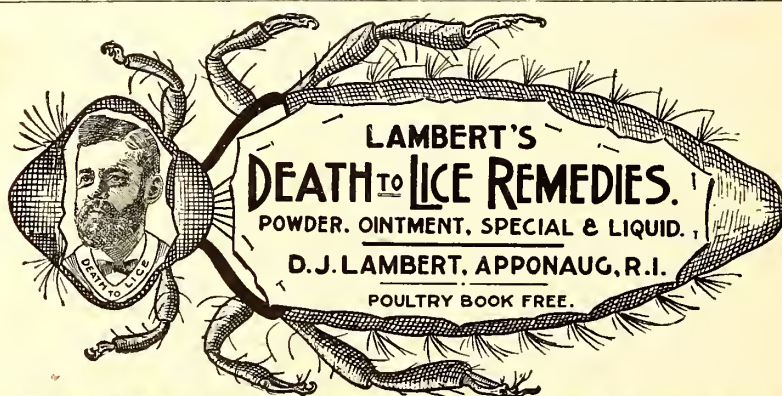
half a pound less is permissible without penalty in judging, but beyond those limits a deduction of two points per pound, or in that proportion for fractional parts of a pound, shall be made for either over-weight or under-weight.)

—E. L. C. MORSE.

Dry Foods Gain Favor.

The question of dry grain rations without mash or mixed food is having the attention of those who keep a constant lookout for better ways for profitable poultry handling. All admit that the largest egg-yield can be obtained and maintained when mash food is fed. The reason for this is the inability of the hen to grind enough of hard grain food to keep up the egg-supply. The mash food, being partly ground, can be passed into the system faster than can the hard grain. In the same way is cooked food best of all, for it is partly dissolved and will be assimilated that much faster into the system and be that much sooner converted into eggs.

That such foods are best for a large egg-yield we admit, but the question of fertility must be taken into consideration, so the egg-yield must not be pushed too fast for fear that this will not only reduce fertility but vitality and vigor as well. On the hard or whole diet the fowl must have the time to grind her own meal and this will delay the process of egg-formation so as to allow more time for fertilization and in this way better results may be obtained in hatching. This method of dry whole-grain ration is only for the breeding stock, so we may hope for a better hatch another year by not forcing the egg-yield; in other words, it is thought that if we will give our hens, or in fact all of our breeding stock, the chance to run in and out of their houses all winter as they please, and feed them all hard grain and make them dig and hunt the same in winter as they do in summer we will have better results. There is no room for doubt but that we are too particular as to having our breeding stock kept too fine and warm all winter with nothing to do.



I'm Talking
of the Great Hagerstown Fair...
Oct. 14-15-16-17-1902

Send for Premium-List to
JOHN L. COST,
Superintendent Poultry Department,
Hagerstown, Md.

Henhouses.

Editor The Feather:

New henhouses should be built while the ground is warm and dry so that the interior of the houses will be dry, for damp henhouses kill more fowls in winter than are destroyed in any other way. Dampness is the everlasting enemy of fowls; it gives them cold, roup, and bowel trouble. Dry cold is not so bad for them. They can stand all degrees of cold weather if within a house that is dry and free from draughts of cold air. What is needed is to be rid of the damp within the house, and for this you should build the new houses during the summer or early fall when the ground is warm and dry and so early that the doors and windows can be left open so long as the good weather lasts.

No floor is so good as is the ground itself. To have this you must have the very best of drainage or build a wall so you can fill up within the house a foot at least, and bank up the dirt without so as to turn the water away from the house, for by so doing you can have a fairly dry floor. If it can not be kept dry in this way you can have a board or cement floor so built as to keep out the damp. Of whatever material the floor may be it should be covered six or eight inches with dry dirt or sand for winter use, and on top of this should be plenty of dry straw for the hens to dig in. So long as this straw keeps dry and crisp you will know that the floor is dry, but when the straw becomes wet or damp it should be removed and replaced with dry straw; in this way a house or floor that is just a little damp may be kept better than if the straw were not used.

If houses are properly ventilated in winter it will help to keep them dry. Have the windows so constructed that they can be open during every day. If the sun shines let them be open, but if windy or cloudy or wet put a muslin screen over the window so the air may pass in and out without the elements doing harm. Never have the windows closed when the sun shines unless it is down to zero or below, and even then it is best to let in a little of the air and sun, as it helps to keep it dry though cold within.

Hooded roosts are best for night in a very cold climate. Build in the droppings-board and roosts on both ends top and back, and have a curtain for the front that can be put down at night and up in the morning. Shut in in this way even Leghorns will not be frosted the coldest nights. The warmth of the fowls is then all confined about them and the air will come in through the curtain. No matter if it is very cold, a dozen fowls shut in a hooded roost in this way will be warm. No matter how cold it may be in the daytime (within reason) if the fowls are kept busy digging in straw for small grain they will keep warm, but if they are allowed to get their wattles wet they will freeze even when it is not very cold. Dampness will freeze at a higher degree than will the dry comb and wattles.—H. J. L., Auburn, N. Y.

Winter Care and Feeding.

Editor The Feather:

As we go into winter quarters with our fowls we must not forget that their supply of grit, green food, insects, and bugs is taken from them. All these are as necessary to the hen as are teeth, meat, and vegetables to us. If all these

were taken from us we would think it was all over with us. Just so with the hen; these are not unnecessary things but absolute necessities for their existence. We do not, any of us, supply half enough green food of the proper kind for our fowls in winter. Notice I say of the proper kind. Fowls love grasses best for green food and I give them all winter cabbage, beets, and turnips. What would the cow do if she had only cabbage, beets, and turnips? Would her milk be good?

Plenty of well-cured clover-hay should be cut fine and given to the fowls, so they can pick out and eat all the clover leaves they want. This is next to their natural grass food. Give them all they want and when it gets into the crop the water they drink will make it green, as if you had soaked it in water. This gives them a natural grass diet or very near to it. There can be added to this the cabbage and vegetables, but for best results these should be cut up small and cooked and fed in their mash. In this way they have the proper grass diet and vegetables the same almost in winter as in summer.

Meat of some kind must be provided to fill the place of the worms and bugs they have in summer. Cut green bone, meat scraps, meat meal, or any kind of meat will do, only it should be sweet and of good quality, not the cheap, low-grade kind that has a bad odor when you scald it, for this is not fit for them

to eat, as it will spoil the flavor of the eggs and even the meat of the fowl. Good, clean, wholesome food of all kinds is what the fowls must have to do their best.—A CONSTANT READER.

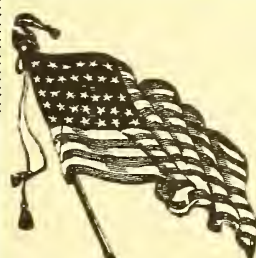
Green Food.

Editor The Feather:

The question of green food for fowls during the winter months has never had the consideration that it should have. If the fowls have some cabbage, a turnip or two, and a beet we feel that their wants are well supplied. The question is, have you ever known a hen or a chicken to eat any of these in summer when they can have plenty of grass and clover. Whoever saw a fowl leave a grass-plot and go and eat a cabbage or a beet-top or a turnip? Now there must be some good reason for this, when it is so plainly shown that they prefer the grass and clover.

I do not wish to be understood as saying that a fowl will not eat the cabbage or other vegetables named during the summer, for they will, but the point I wish to make is that all fowls much prefer the green grass and clover to the vegetables, and that they will not turn from the grass to eat them, but rather from them in favor of the grass. That these grasses contain what they need

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BONE CUTTER

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No money asked for until you prove on your own premises that Mann's Latest will cut any bone with adhering meat and gristle easier, faster and in better shape than any other. If you don't like it return it at our expense. Isn't that better for you than to pay cash in advance for a machine you never tried? Isn't it fairer than so-called "trial offers" which demand payment in advance? Catalog free.

F. W. MANN CO., Box 61, Milford, Mass.
Mrs. Clover Cutters, Granite Crystal Grit, Swinging Feed Trays, etc.



TEN DAYS FREE TRIAL

NO MONEY IN ADVANCE

most is evident from their continual preference for them. This being so, we turn against Nature in the winter and compel them to eat the very food they do not prefer, at a time when they most need that they do prefer.

There can scarcely be a doubt but that the green food or grasses have considerable influence over egg-production. The living animal food and the living grasses of summer combine to make the natural egg-producing ration, and with these in plenty the hens will lay more eggs and larger eggs than at any other time. The hen that has her freedom to roam at will on the farm during the spring and summer months will not only lay more eggs than if confined in the yards, but she will lay larger eggs. This has been demonstrated so many times as to be proven to be the fact beyond question. You may feed both alike as to grain ration and give the fowls in the yard green food and animal food, but this will not prevent the one that has her freedom from doing the best.

I know full well that fowls in confinement have done better for a twelve-months' record than have others that had continual freedom, but in these cases the yarded fowls have had splendid care while the others were not well cared for. It is possible, I know, to have fowls do well under any or all conditions when the care is such as meets the needs of these conditions, but at this time we are making use of the influence of summer greens and living animal-food as a lesson for better egg production in winter, and I shall try to call your attention to it in such a way as to have you give it a trial this winter.

As the grasses suit their taste the best, we may as well conclude they are the best and give them a trial or winter test. To do this we should rake up all the short lawn-grass after it is dry that is cut about the place and keep it for winter use. Good, sweet, properly-cured clover-hay comes very close to the growing clover, and both this and the lawn-grass can be cut into short pieces for the hens to eat. Scatter plenty of these on the litter and in the feed-troughs so they may have all they want. Green some of it by scalding and let it sit to cool, swell, and green over night then drain all the water off and let them have this to eat. For animal food give them green cut bone, and see if this combination will add to the egg-yield. This can be tested quite easily and at a small cost and surely it is worth one's while to find out the best way to induce the hens to lay in winter.

We hear so many causes given for their not laying in winter and so little is done to find out why this is so and remedy it, that it is well to grasp at all suggestions for betterment of these conditions and try them fairly if reasonable and not too expensive. Give them all a chance, and make a fair trial of all that is rational and consistent, for I feel sure that the day is not far distant when we shall have, partially at least, conquered this question.—S. E. S., Lawrence, Mass.

The Molting Season.

Editor The Feather:

Fowls in molt are ailing to a certain extent, not sick enough to be fed medicine and mixtures, but their vitality is reduced and their constitution shaken more or less through the happenings of the past few months; for this reason

they should have special care and invigorating food. Their food should be of the strengthening and fattening nature rather than an egg-producing ration. Strength and blood-forming food should be given them, as this aids in the casting and renewing of their plumage as well as in building up their constitution. This is what they need, not medicines or tonics. If a hen is sick, doctor her but don't doctor the whole flock in order to dose one. The plan of giving all the hens a dose just because one or two are ailing is like giving a hundred children in a school medicine just because Johnnie is sick.

Feed the fowls good, rich, life-giving food and all they need of it, and as soon as the molt is done begin to feed for eggs rather than fat. Such management as this is the winning plan with poultry. Some hens will drop all their feathers in a few days and be almost naked, and such need plenty of good, rich food; others will drop a few at a time and hardly show the process, while others will only drop a part of their plumage and retain the balance that looks bad all winter long. It is just as well to be rid of those that hold to part of their old plumage, as they will not prove profitable as laying hens.

Often the best exhibition hens or males shed badly. When this is so it is a good plan to pluck them as you would dry pick a fowl for the market. Use care and judgment in so doing and place the fowl where it can be kept warm and dry and away from sun, rain, and wind. When carefully done at shedding-time it will not cause the fowl much pain. Each wing and tail-feather must be pulled separately and a few

feathers at a time from the body, a little here and a little there each day is a good plan, and gradually all will be removed and a new coat of nice feathers will come.—R. D. T., Norristown, Pa.

Demand for Quality.

Editor The Feather:

The demand for high-quality stock was never better. More stock is sold to-day at good, long prices than ever before; at the same time the medium quality has gone back in value and the poor quality has no value above its selling price for table poultry or egg-producers. It is just as well to face the situation squarely and make up our minds that this will be more so each year. It is just as well to draw the line in our own yards and cull closely and sell all the under medium grades to the market poultryman for what they are worth.

You may rest assured that if you sell a bird that is no good in quality that

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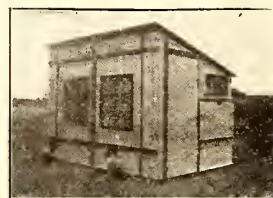
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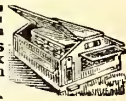
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BRADLEY BROS., Box 900, Lee, Mass.

you will have to take it back or have trouble with your customer. All this is compelling the sale of better and better all the time. One of the best-known breeders told me a short time since that it took a much better bird than ever before to satisfy a customer, that many more must go into the market stock than formerly, but that the good ones bring better prices. This shows an improvement among purchasers who show their ability in refusing to accept plain quality market stock for good or fairly good specimens. When this is reasonable it is a help to the business but when people make use of the approval clause just to see what others have it casts reflections on them and their ability to tell good quality.

All this may cause some trouble, at the same time quality must improve all the time with us all, or else we are being left behind and we will be out of the game altogether if we don't look sharp to our laurels. We must take a look and a good, quick, sharp look ahead or we will be left behind by those who improve each year. Better and better is the order of the hour in everything, and this must continue as the world goes on. This condition will grow stronger and stronger in the poultry business till the fancier will be compelled to have a few better ones than ever before and the market-man will handle only the lower grades.—E. B. C., Trenton, N. J.

Buff Wyandottes.

The displays of Buff Wyandottes intimates that those who breed them have the determination at heart that brings success, with efforts extended to that end. A few years ago both shape and color were lacking, black tails and wings were plenty, and red surface-color as bad almost as the Rhode Island Reds, but to-day it is not unusual to see a whole class at our best shows filled with specimens of good shape and color. If the breeders of this variety will hold for the true Wyandotte shape, have the short bodies and the show of fluff and cushion they will have a variety of fowls with the true type as it should be, but if they allow Plymouth Rock shape and improper size, either too large or too small, they will lose their prestige as a specially fine fowl.

At the Cambridge, N. Y., Fair every fall there is a gathering of Buff Wyandottes that would be a surprise in any other section of the country. This is the center of Buff Wyandottes for the East. We presume there are more Buff Wyandottes within one hundred miles of Cambridge, New York, than anywhere else in this country, and the Cambridge fair is the point of a formal test of quality for the year. This is the place to test the quality of the year's product. The best of the year comes here and the breeders gather in large numbers to see what the other fellows have got, and it often happens that when the conclusions are reached the winners at this great gathering point to where the winners will come from for the winter shows.

We made a trip a short time since through the Buff Wyandotte district of that section of New York and we think it entirely within bounds to say that in the neighborhood through which we passed there were more thousands of Buff Wyandottes and Buff Plymouth Rocks than we have fingers and toes;

hundreds of them on every side, and all think they have the best, a spirit that insures success, for it shows that all strive to have the best, and we can say with but little hesitation that all have good ones and the final test of quality can only be decided in the show-room, and the breeders of that section always do their part in entries at our large winter shows.

The color of the Buff Wyandottes is better and better each year, but it would seem that it might be better not to favor the thin, pale color that some rather prefer, for pale lemon is not buff, nor is the color that shows the light ticking or indistinct bars of lighter shade across the feathers clean, even buff. It would be better to have close, even buff color as described in article on buff color in our July number. Work for the true, close-filled-in, dense buff that has the proper shade of under-color, with this have the clear wings and tail and the proper shape and good combs and you have the true Buff Wyandottes.

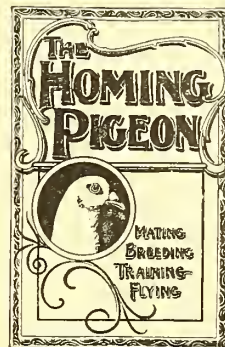
A Few Hens.

Those who keep a few hens in the corner of a town lot are usually the ones to have the best egg-yield all the year around. These hens are usually well fed, well housed, and kept clean and healthy, a large part of their food comes from the scraps of the table, everything that goes into the scrap-pail even to the coffee-grounds and tea-leaves are good for the hens. Don't keep a slop-pail. Drain everything dry that is eatable, put it into a pot or kettle or pan for the hens. Cook it all up together, mix some bran and meal with it for the hens and they will do finely on such food. Cut all the bones up in a bone-mill, cut up all the beet- and radish-tops, waste lettuce and such, cut them small and cook them with the other scraps. It all goes and is good for them. If one could keep a thousand hens in this way they would pay a large per cent. It is the care and attention

that the hens get that make the profit. About all over fifty or sixty eggs per hen per year come as the result of better care. Just remember this as you go along and remember that when the hen has produced sixty eggs in a year she has done her part; the balance rests with you and care is the thing needed to bring the big egg-yield.

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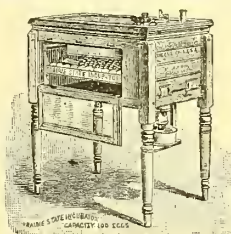
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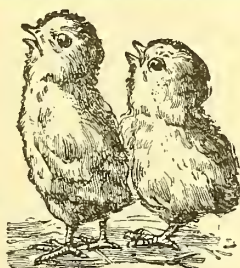
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BETTER RESULTS OBTAINED

When We Are Fully Informed as to Conditions.

Editor The Feather:

When we cast our future within the care of methods unknown, as we do when we place a thousand eggs within the egg-chamber of an incubator, we should, at least, pay special attention to the way of handling the machine; in doing this we are led into the thought that is always on top, why don't we get one hundred chicks from each one hundred eggs? Often we forget that we are pleased when the hen comes from the nest with nine chicks from fifteen eggs, but when the machine gives us returns in the same proportion we are surprised; in fact, we usually look for a better per cent from the machine than from the hen herself.

The facts are that fowls kept in a semi-unnatural condition, as when yarded, will not do so well as those that have more natural surroundings. At the same time conditions of weather, food, and breeding all have their influence on the fertility of eggs. For these reasons the high-bred stock that is yarded must not be expected to give equal results with that which has the freedom of the farm.

If it might be possible to maintain equal vigor amongst fowls that are kept in yards as is gained from roaming at will, we could begin the hatching process within our incubators with one full count in its favor; as it is, we must discount the future prior to beginning, and this count must go against the vitality or vigor of the life-giving germ that exists within the germ-cell awaiting the influence of heat that will bring it to a living chick or to immature death. This will partially explain the start when made with eggs from the most robust or the less sturdy fowls as may be the case.

The age of the egg and the care given it since it was laid have considerable influence on the size of the air-cell in the large end of the eggs. As evaporation goes on the air-cell grows larger and pushes the inner membrane or skin of the egg up about the albumen and holds the egg together. The fresher the egg when put to incubation the smaller will be the air-space during the entire period of three weeks. If the air-space is large at the beginning it will continue to grow larger all the time. If unusual heat causes unusual evaporation, all the moisture may be gone from within the egg and the germ will die.

The proper amount of moisture must be within the egg at all times during the growth of the embryo, or it will die. The use of moisture within the machine is not to force this moisture within the egg, but to arrest unnatural evaporation from the egg, that may be forced by unnatural heat. If the water that is placed within the machine could find its way within the egg it would surely kill the chick, but its mission is to prevent unnatural evaporation from within the egg. The theory is that when the heated air is saturated with this moisture it will not draw so much from the egg.

It is so thoroughly understood that 102 to 103 degrees is the proper amount of heat to maintain that it is quite useless to say more of this; at the same time we may as well ask the question, does the hen keep them so? No, she

does not. It is quite certain that eggs under a hen will not go above 104 degrees and seldom to that, unless the atmosphere surrounding her is warmer than this. It is also certain that the eggs on the outer edge of the nest are not so warm as those in the center. It is also well known that the hen shifts them continually from the center out, so as to keep them all of an average temperature, which must at all times be the case under our set schedule for heat within the machine.

For theory's sake let us say that it might be better to have the range of heat a little lower than is scheduled for the correct temperature. Won't some one make the test and try a hatch between 100 and 102 degrees and see if it will do as well, or better, or not so well? Then let others put moisture within the machine at the start and hold the heat at 102 to 104 degrees limit, and see if this will arrest evaporation and help in the hatch. All these changes might be tried for the benefit of us all.

The proper conditions of heat, ventilation, and moisture must exist if we hope to gain the best results. We may try and try, but the facts are that the hen will do better than any machine so far made, when handled by the average man or woman. This is the true test of the ability of an incubator to do its work properly, and to do this when operated by an amateur it must have a well-regulated system of heat and ventilation and gain in some way the moisture that must saturate the heated air to keep it from drying up the eggs. While the hen may do better at her task than the machine much time and labor may be saved in the use of the machine, so that the gain in one way is lost in the other, and the most satisfaction will come from the use of the machine if any number of chicks are to be grown.

But with all this we are still confronted with the question of failure to hatch from one or many causes. This tells us that the system of artificial incubation is in its infancy, and here is just the very point of inquiry that should have attention. Thousands are spent each year on growing young fish and lobsters, not for the benefit of near so many as could be assisted if this question of

artificial incubation could be solved. Millions go each year to aid in dairy and sheep culture, neither of which can rank with the poultry interest. It should be the determination of every man, woman, and child interested in poultry to see to it that their State Legislator and Congressman are shown the necessity of considering their causes.

No one can give a plausible reason as to why the eggs do not hatch. If any true cause were known, it would be removed and the trouble would end, or partially so at least; but the facts are no one can tell the cause of failure. This being the case no remedy can be applied. To obviate the trouble we must know beyond all per adventure the cause for same, and to find this we must experiment till the trouble is positively and absolutely located. When this is done to an absolute certainty then, and not till then the remedy can be applied.—M. V. C., Albany, N. Y.

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The Light Brahma.

New facts crop out continually as to the origin of our fowls and their improvement along the lines that have brought them to their present condition of quality. We see it is now claimed by Mr. Felch that the Light Brahma came to us a made breed so far as its characteristics are concerned, and that we have simply improved them. The same writer tells us that it would have been better to have clung to the standard description of twenty-five years ago, also to the type of fowl that met the demands of that standard. While many of the present-day fanciers would call this old-fashioned and claim that the present type was an advancement far beyond the old, there seems to be a well-set opposition to the too-much-Cochin type for our Brahmas.

The fact must be admitted that a large per cent of the winning Brahmas, both Light and Dark, as shown in the East are rather on the order of Cochins in shape; the short shanks, heavy cushion, and full fluff and feather favor the Cochin, and added to this they lean toward the bend at the knee (hock-joint) and have the forward carriage that belongs to the Cochin. If this is the desirable type for the Brahma let it be so understood and recorded in the Standard; if not, do not imitate or ape the English type of Brahma. For years they have had in England Brahmas with vulture hocks heavily feathered and cushion like the Cochin's. In fact the Cochins and Brahmas of England all have the to-be-despised vulture hocks and faulty breast that go with too much feather and hock.

If this is the type of Brahma that is to be desired it is best to declare for it and stand for it and so describe it; if not, let us drive it out as we drove out the too-English Cochin and have only the American Brahma. While we can not go so far as to say that the type of twenty-five years ago is best, we do think that the Cochin type has already had too much encouragement at the hands of the judges at our Eastern shows for the past two or three winters, and it is time to either call a halt or admit the ground on which we stand to be right and proper. There is no use to speak for one in the columns of our Standard and declare for the other in the show-pen. It is not right and is misleading to the amateur.

The color of the Light Brahma can not do it one-half the injury that may be wrought through this change in type. The rich coloring of the exhibition specimen can only come through close breeding, and while it is to be regretted that the clean white backs of our Brahmas are becoming things of the past, this will in no way injure them as Brahmas, for as good market stock may come from the much-too-dark specimen as formerly came from the clear, clean white ones, but the bad shape will injure them for both egg-production and as table poultry. Then, again, a Brahma may be too large for the best market fowl, for when they are over a certain weight the price per pound decreases. All poultry in our city markets that weigh over four or four and one-half pounds, sell for less per pound than those of that weight and less.

No fowl can surpass the stately Light Brahma for grace and beauty, none is more attractive in the show-room, none has had better sale for the last twenty-five years, but of late there is a murmur against them, as against the Cochin, of

fewer eggs and less fertility in the eggs. If this goes on the Brahma will be set back as a popular fowl. We can well remember when the Cochin classes of the Middle States and the West were the banner classes; to-day they are gone. Will it be the same with the Brahma? Are we to see the Brahma driven from its popular position at the head of the list to a minor one? We trust not, but it will be so if the present type of Cochin-Brahma must take the helm.

We do hope that those who can rule in this will do so for the best interest of this lordly breed. Don't be carried away with this too-much feather and Cochin shape; don't work for a striped saddle; don't destroy the clear white backs. Have the good, sensible Brahma shape and size and all the color you can have in neck, wing, and tail consistent with the white back, but don't get them so dark as to have the slate-blue under-color so bad in more than half of them that they must be thrown out as culls; don't get them into the position that at a few shows they will come in number and at all others be but seldom seen, rather have them more popular and beautiful than so exclusive as to be barred from general cultivation.

Black Cochins.

Were it not for the grand display of Black Cochins each winter at Boston one might think that this variety was almost extinct, so seldom are they seen of good quality at any of our shows. Those that come to Boston almost equal any of the Cochin varieties. One Black Cochin cockerel that was in the Boston Show last winter was said to have been the best all-around Cochin of any kind for the year. There is no good reason that can be advanced why the Black Cochin should not equal any of the Cochins of the future, for now they have a start forward in the right direction and should be encouraged in it.

The Black Cochins as you now see them have fine Cochin shape, size, and color, and are profusely feathered. Their color almost equals the Langshan for luster and their handsome heads and belongings look so fine in this type of bird and the color adds brilliance to the face and comb. The Black Cochin should be of as good shape

as the Buff and have quite as much feather. Their color should be of a brilliant, glossy black throughout, with no false color. In size they can be as large as any Cochin and there is no use whatever to have them any smaller in size or poorer in color than other Cochins.

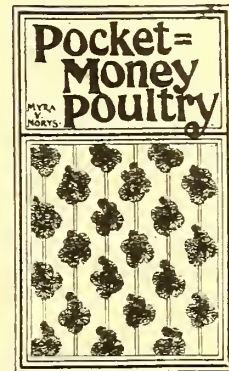
Black Langshans.

Winners at the Great Hagerstown Show, Riverhead, N. Y., '01, and Green Castle, Ind. Ideal winter layers of large eggs. Will offer **GREAT BARGAINS** in young and old stock after September. Eggs, \$1.50 per 15. Remit by P. O. or Ex. Money Order or Bank Draft.

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Pocket-Money Poultry.



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THE BUSINESS WORLD

As Viewed from the Columns of *The Feather.*

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The La Porte Insecticide and Disinfectant Co., Plattsburg, N. Y., is sending a one-hundred-pound bag of prime C. O. Shells upon receipt of twenty cents to every dealer in French Insecticide.

BEST HE EVER HAD.

F. G. Powers, Sterling, Mass., breeder of Single Comb White Leghorns, writes us that he has the finest stock of birds this season that he ever had, they being of solid white plumage and excellent shape. Mr. Powers is one of the advertisers in *THE FEATHER*, and always takes special pains in attending to the wants of his customers. Those desiring good White Leghorns should write him, and we believe they will be well pleased with their purchases.

IN THEIR NEW PLACE.

Ideal Rabbitry, E. L. Barclay & Son, Props., have moved to their new place at Woodside, Md. These gentlemen have been before the readers of *THE FEATHER* for a long time as breeders, importers, and exporters of Belgian Hares. In their new place they propose having what their name indicates, an "Ideal Rabbitry," and will breed, as well, fancy pigeons and poultry. A visit to their place will convince all of the thoroughness with which these gentlemen do business. *THE FEATHER* wishes them unbounded success in their new venture, and hopes they will win many premiums at the coming shows this season.

A FANCIER'S PLANT.

Frank W. Gaylor, a well-known poultryman, is now located at Berlin, Conn. He is erecting and managing the new poultry-plant for Mr. W. L. Davis at that place. He has now nearly completed a breeding-house 180 ft. long by 14 ft. wide, as well as modern brooder-houses, office, feed-rooms, incubator-cellar, etc. This will be a fancy poultry-plant exclusively. Barred Plymouth Rocks and Buff Orpingtons will be the two varieties with which they will start business.

BREEDER AND JUDGE.

D. P. Shove, Fall River, Mass., the well-known breeder and judge of R. I. Reds, Houdans, Light Brahmas, Buff Cochins, Bantams, and Belgian Hares has had a phenomenally good season with his stock, and will be in prime order to attend to all customers this season. Mr. Shove has made quite a success in breeding R. I. Reds, and was one of the first to form the Rhode Island Red Club. At the organization of the club he was elected its first president, and he has been a firm admirer and breeder of these birds since they first became known to the country at large. Those shows desiring a good, competent judge in the class mentioned above, will do well to correspond with Mr. Shove on the subject, and we believe he will give entire satisfaction with his work. Mr. Shove has been a long-time advertiser in *THE FEATHER*, and his transactions have always been to the entire satisfaction of his customers.

FOR EMERGENCIES.

You ought to keep a little good whiskey in the house. For accidents, faint-

ing spells, exhaustion, and other emergency uses, it relieves and revives. But you must have good whiskey, pure whiskey, for poor whiskey, adulterated whiskey is injurious. Hayner Whiskey is just what you need for it goes direct from their distillery to you, with all its original strength, richness and flavor, carries a United States Registered Distiller's Guarantee of Purity and Age and saves you the enormous profits of the dealers. Read the offer of The Hayner Distilling Company elsewhere in this paper. They are a reputable house, have a paid-up capital of half a million dollars, been in business over thirty-six years, and will do exactly as they say.

THE "WHITE CLOUD" STRAIN.

Mr. Ed. L. Douglass, Akron, Ohio, breeds the White Cloud strain of White Plymouth Rocks, the greatest of layers and prize-winners. He has about two hundred head of young stock, bred from pens scoring 186 and 188. If in want of show birds or breeding stock do not be afraid to write, as Mr. Douglass has stamps to use for that kind of business.

Clean Up Thoroughly.

The only way to assure a healthy condition in your flock of fowls is to have things thoroughly clean in and about your premises and yards where the fowls must live. An occasional cleaning will not do; the only true way is to keep them clean all the time, but whether this is done or not, it is an absolute necessity to be cleanly during hot weather, for then is when the death-dealing lice of all kinds hatch, thrive, and feast upon the fowls if they get the chance.

With the constant ring on all sides of cleanliness and the many kinds of lice-paints and powders that are offered for use, it is almost a crime for any one to have dirty surroundings and the pest of lice. When any one asks how to be rid of lice, we feel sorry for both them and their hens, for when the lice are so bad as to cause comment the poor fowls must be in endless torment. Cleanliness and the proper use of lice-destroyers will keep any henhouse or coops as free from lice and ailments as a house or barn. Clean up thoroughly and keep clean always is the only way.

English Poultry Displays.

During the month of August there were eighty-two poultry displays scheduled for England alone, not counting those held in Scotland, Wales, and Ireland. When we consider how small the island is we can have some notion of the interest taken in poultry and other live stock in that country. These displays are usually in connection with what are called Agricultural Society Meetings at which all products of the farm as well as live stock of every kind are shown. These gatherings last usually one, two, or three days, seldom longer. They are attended by large crowds and reports show that from five to seven hundred entries of poultry were made at each, most of which came from near-by fanciers. This would be like handling twenty-one fairs each week in the State of Ohio. Where there are about enough counties for each county to have had a fair in the month of August.

The longest list that we have seen in this country only schedules 217 poultry displays covering a space of five months or forty-three shows per month for this

big country of ours. If we should include all those held in all the English Isles they would have as many in two months as we have in six. One can scarcely realize the vast and extended interest of stock breeding of all kinds in England. Every locality has its agricultural society and they each have a show every year from July to the end of November; after that their entire attention is given to breeding, save for a few events that may be held later.

By January the whole country over there is full of young chicks. The bulk of all are hatched by the end of March, but they continue to hatch well up into the early summer. Their climate is not so cold as we have it here in this country, nor is it ever so hot, their great drawback being so much damp weather. Comparatively few chicks are hatched by any one fancier, but there are so many of them that the total production is astonishingly large. With all this England is a buyer of eggs and poultry for table use. The consumption is very large as the population is great for so few square miles of territory.

One Man's Experience.

Ten Plymouth Rocks hatched in 1901 and owned by a man in New Jersey were kept in a yard about 16x40 with plenty of grass and given proper food and water. These hens laid very few eggs and their eggs were small; the nine hens did not lay a dozen eggs per week and they hatched poorly. The owner was so disgusted with them that he took the whole lot to the rear end of his farm where there is an old barn that has been out of use for some time past and turned them loose to hunt for their living or die.

Three or four weeks later he went to look them up; five of the hens were sitting on from fifteen to seventeen eggs each, the other four had nests partly filled with eggs, the hens all looked fat and fine, the male much improved; but the wonder was their eggs were all fine and large, almost double the size of the few they laid at home just prior to being taken away, and in less than four weeks the hens have laid more eggs than they did before in three months. Now the query is, will these eggs hatch better than before? We record this and shall hold it for publication till we have the results of the hatch.

This only goes to show what conditions will do for the fowls. These were put to shift for themselves about an old barn where no fowls had been for years. All they had to eat or drink they found for themselves. A flowing stream is near the barn where there is plenty of water, and for food they could search the fields for all they got. This is as near to nature as possible, and shows what our unnatural yarding may be responsible for. Small eggs, few eggs, infertile eggs, all present with this lot prior to their emigration. Two of these conditions we have seen improved and what of the fertility? The result is reported as follows: The first nest of eggs produced eight fine chicks, the next twelve eggs produced ten chicks, the next fifteen eggs, fourteen chicks. This looks as if the best cure for all the ills mentioned above can be found in freedom and natural surroundings.



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Rose Comb Leghorns.

For years these were considered as only fancy fowls for exhibition. They were too small and laid eggs but little larger than a good-sized bantam's egg, but these conditions have changed. As their admirers have improved shape, head-points including comb, and color they have gradually gained size of both the fowls and the eggs they produce, and in so doing they have added largely to their popularity and value.

To-day we see the Rose Comb Brown Leghorn of equal size and of as good form and color as is the Single Comb. Quite frequently do we hear of those who have adopted the Rose Combs as their hens to produce eggs for market, and those that have them claim that their egg-production is fully equal to that of the Single Comb and that their eggs give equal satisfaction as to quality and size. This is true, also, of the White Rose Comb Leghorn. Both of these can be housed with less danger of combs freezing in cold climates than can the Single Comb. This is of advantage in winter when often a cold spell comes that penetrates the best henhouses.

There will be but little trouble to gradually increase the size of the Rose Combs if those who breed them will only use the largest hens they have of this variety to breed from. Don't make use of the small pullets for breeders; select the largest of your hens and mate them with your largest and most vigorous cockerels and one-year-old cock-birds. Select for size and vigor as well as for other points, for by so doing you can in three seasons add at least one-third to the size of your Rose Comb Leghorns. Never try to have your Leghorns too large but just large enough and strong enough to produce a lot of eggs of the medium size that is proper for a Leghorn.

The Rose Comb White Leghorn is just like other Leghorns in every respect excepting the comb which is like a Hamburg's. It is the same with the Rose Comb Browns; they must have the same shape, color, and markings as have the Single Comb Browns, and to produce them you must mate the same as is necessary to produce the other Brown Leghorns of the best color and markings. You will find in the columns of THE FEATHER from time to time plans of breeding and mating Brown Leghorns, all of which can be applied as well to the Rose as to the Single Comb varieties.

There has not been the progress made in the Rose Comb Buffs as in the Whites and Browns, at the same time they have gone forward and we shall hope to see them improved in all points as fast as it can be done, for the real value of this variety depends upon their having perfection in all sections that will fully equal the Single Comb Buffs, or they may as well not exist at all, for there is no room left among fowls for poor quality.

The French Fowls.

Considerable interest clusters about the French breeds at this time on account of the numerous articles upon cramming fowls that we see in print of late. This method of cramming fowls is old in both France and England, and it is only a question of time when it will be followed to a great extent all over this country, and in addition to this it will be greatly improved upon when it

comes into public notice among our people, who will quickly show their ability in this line, as in other lines of growing the best food meats in the world.

The French fowls are especially grown and planned for this manner of feeding. So far in this country the American breeds or Brahma crosses are used where the method has been introduced, but so sure as it becomes general then the value of the French breeds will become known and they will be bred for this purpose, and it is only a question of time till we have both and do well with them. It is natural for us to cultivate and have the best, and it will be but a short time till we are sending our eggs and dressed poultry to other countries the same as we send other meats and food stuffs at this time. To do this successfully we must have the kind they like best, and to meet this demand we will have both French and English breeds.

The Houdan has for years been the best in frame but to-day they divide the honors with La Fleche and Favorolles, the latter a new breed of French origin that has recently been brought to notice in this country. Those who breed them are pleased with them, and speak of them in the highest terms, and in both France and England they are well thought of as compared with both the Houdans and the Dorking. When you begin to cater to a new trade it is better to supply that which is preferred than to waste time trying to force the adoption of something unknown.

Shows and Associations.

The Cambridge (Ohio) Fanciers' Association will hold its third annual poultry and pet stock show, Jan. 7-10, 1903. James C. Sarchet is secretary.

The fourth annual exhibition of the Elgin (Ill.) Poultry Association will be held Dec. 23-27, 1902. Chas. McClave will judge. R. R. Rowe, secretary.

The first annual show of the Allegan Poultry and Pet Stock Association will be held at Allegan, Mich., Dec. 8-11, 1902. Oscar C. Herbster, judge. J. B. Buck, secretary, South Monterey, Mich.

To Breeders of Partridge Wyandottes:
Our club was formed in August, 1900, for the purpose of the general advancement of our favorites—the Partridge Wyandottes. It costs but one dollar to join our club, and our dues are one dollar a year thereafter. The names of all members will appear in our catalogue which will be published this fall, and should be worth far more to you as a breeder, in the way of an advertisement, than the membership costs; and, of course, all members are eligible to compete for such club specials as your support, and others', will enable us to offer at leading shows. We hope to receive your application at once.—Theo. Haight, Jr., Sec'y, Astoria, L. I.

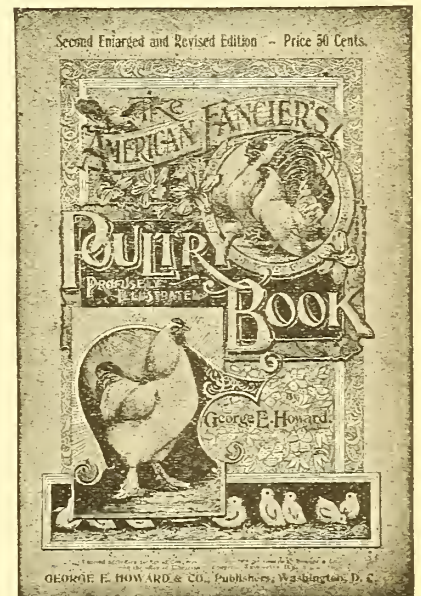
The first annual show of the Poultry Fanciers' Association of Milwaukee, Wis., will be held in that city, Dec. 15-20, 1902. The show will be run on the percentage plan, thirty-five per cent for first prize; twenty per cent for second; and ten per cent for third. J. Y. Bicknell, Buffalo, N. Y., will judge. Emil G. Raasch, 710 Walker Street is superintendent of show-room, and John H. Pagel, 1529 Kinnickinnic Ave., is show secretary.

There will be a meeting held at the Hagerstown Fair Ground on October 16,

1902, during Fair week, at 3 o'clock, for the purpose of organizing a National Light Brahma Club. It is hoped that all who are interested in this grand breed of fowls and can attend will do so. Breeders interested who can not attend will kindly express their views in the matter by letter addressed to John L. Cost, Hagerstown, Md., or to C. P. Nettleton, Shelton, Conn.

Entries for the Great Twentieth Century Inter-State Fair, Trenton, N. J., Sept. 29th to Oct. 3rd, close Sept. 22nd. Exhibitors should not fail to send for a premium-list of this fair. Also remember that this fair has always paid its premiums promptly. Exhibitors this year can be sure of fair and impartial treatment. The exhibitor showing one bird will be taken as good care of as the exhibitor showing fifty. The premiums are large, plenty of cash specials, single entries, and the best of judges should insure one of the best shows of the year. On the evening of the 30th a banquet will be given to the exhibitors and it is hoped a big crowd will be present. Pigeon men especially should remember this fair, as it is the first to offer cash specials on the different varieties along with a full classification and big premiums.—Walter S. Gladney, Jr., Sec'y.

✧ The ✧ American Fancier's Poultry Book.



"The American Fancier's Poultry Book" is one of the best books we have ever offered to the readers of THE FEATHER. It is a grand book, and has been praised by all who have seen it. It is a practical book, and should be in the home of each and every lover of poultry. No matter how much you may know about poultry, you will be certain to find something new in its pages. To the novice nothing better could possibly be recommended. This great book contains illustrated chapters on The Poultry Industry, General Management, The Egg, Incubation, The Chick, Recipes for Feeding, Feeding for Eggs, House Building, Keeping Eggs, Caponizing, Diseases, The Standard Breeds of Poultry, The American Class, Asiatic Class, Mediterranean Class, Polish Class, Hamburg Class, French Class, English Class, Game and Game Bantam Class, Bantam Class—Other Than Game, Miscellaneous Class, Turkeys, Ducks, Geese, and Swans. **Price, 50 Cents.**

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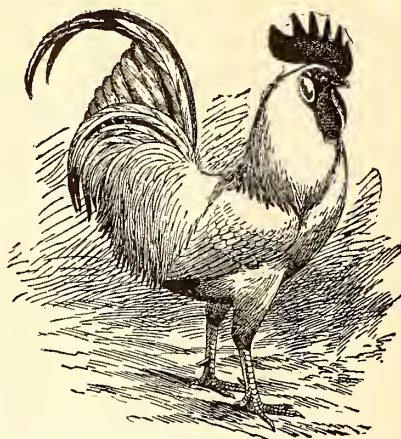
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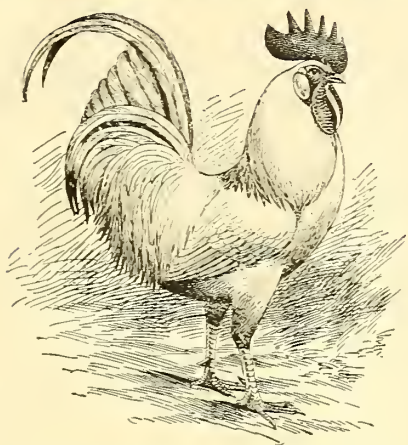


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in any score-card show, nor any pullet where they were weighed and weighed correctly. Only lost once on first cock. I won all prizes at Springfield, O., Aug. 21-24, 1900, all prizes offered. My strain won all prizes at Urbana, O., Aug. 14-17, 1900, this season making 30 times I have exhibited in 8 years. No breeder ever made such a record.

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EGGS from Best Pens Only.
\$4 per 13; \$7 per 26; \$9 per 26.

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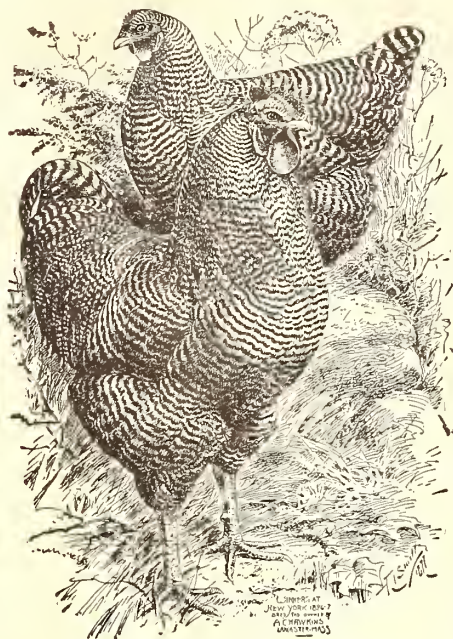
Conkey's Egg Food and Poultry Tonic Helps to produce larger and healthier eggs, and will make your hens lay when everything else fails. It regulates the liver and bowels and keeps their blood in a healthy condition. Will produce an egg every day. 25c. per package, and 15c. extra for postage.

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ROYAL BLUE STRAIN

PLYMOUTH ROCKS

BARRED, WHITE AND BUFF.

WYANDOTTES, SILVER WHITE AND BUFF.

EGGS FROM PRIZE MATINGS.
 1 Sitting, \$5. 3 Settings, \$10.
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 Per 100, \$20.00.

Have won more prizes at New York, Boston, Washington, and America's greatest shows than all others. My matings this season are the best I ever owned. * * * * *

At the Great National Show, WASHINGTON, D.C., in hot competition with over 300 birds of these varieties, the best that could be found regardless of price, I won 45 Regular and Special Prizes on 39 Entries, including First Prize on Breeding-Pen in each variety, Special for Best Display in the American Class, Special for Best Exhibit of Plymouth Rocks, Sweepstakes Special for Best Cockerel in the show (Bantams excluded), and this on my First Prize Barred P. Rock Cockerel. My winning White Wyandotte cock was pronounced by the judges to be the best they had ever seen. I won twice as many first prizes as all other exhibitors of these varieties. My BUFF ROCKS, at Boston, 1899, in hot competition, won more first and special prizes than all others. My customers are winning all over the country. If you want the BEST, write me. Hundreds of Choice Exhibition and Breeding Birds at Honest Prices. Catalogue of America's finest Plymouth Rocks and Wyandottes free.

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White and Buff Wyandottes.

The Greatest Strain on Earth.

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Equal to Any and Have no Superiors.

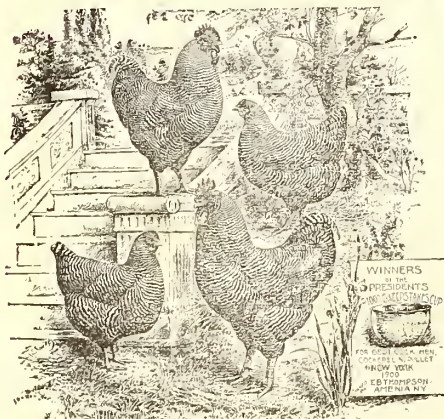
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